ELECTRICAL WEST

NOVEMBER 23, 1960

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Buyers' Guide and Manufacturers' Directory

1961 EDITION

1 Directory of Manufacturers

80 Where-to-Buy Product List

114 Directory of Representatives

Reader Service Card (opposite page 102)

PRECISION PHOTOELECTRIC CONTROLS LIGHT MORE OF THE **WEST**

Automated light—field proven on more than 400,000 installations. That's the Precision Multiple Control. Yet Precision's miniaturized, two component unit is as simple in concept, fail-proof in operation as the sun's own orbit. No wonder it's used on more lighting systems than any other make or type of photoelectric switch.

Its operation, of course, is already well-known to municipal officials. When natural light falls below the pre-set level you determine, the light sensitive Precision control turns lights on. When natural light returns to safe, minimum levels, it turns lights off. Artificial lighting energy is used only when it's needed on your streets, public buildings, recreation areas and industrial sites. You reap important savings long after Precision's low first cost is forgotten—on installations and maintenance as well as power.

Built to precise conformity with EEI-NEMA standards Precision Multiple Controls are interchangeable with all existing receptacles — incandescent, fluorescent, mercury vapor — and with the startling new Precision Mercury Convertalume. Translucent Precision housings freely admit light but can't be damaged by dust, soot, moisture, sun, field handling or storage. More than twenty mountings adapt it to any existing needs — and Precision engineers will recommend special fittings to suit specific requirements on request. Some Precision mountings and controls are shown.

M-4 — For threaded conduit, with or without FS box wall mounting

M-8 — Converts GE Form 110 to locking type receptacle

M-9 — For 1½" O.D. pipe or conduit

(Above mountings with Precision's EEI-NEMA Model D-275.)

M-2A — Pole or cross arm, with or without angle

D-2-375 — Precision control with 3¾" ID base

D-5 — Meter type photoelectrical control

pmc

PRECISION MULTIPLE CONTROLS, INC. 233 Chestnut Ridgewood, N.J., U.S.A.

PIONEERS IN PHOTOELECTRIC LIGHTING CONTROLS

(Refer to Buyers' Guide for Precision Representatives' addresses page 60)

DIRECTORY of MANUFACTURERS

Alphabetical listing of manufacturers of electrical equipment, showing their principal Western offices and sales representatives. • Every manufacturer operating in this territory is privileged to be included without charge. While this Directory is as accurate and complete as the publishers could make it, ELECTRICAL WEST assumes no responsibility for errors or omissions.

A.-P. CONTROLS (See Controls Corp. of America.)

ABOLITE LIGHTING (a Division of Jones Metal Products Co.), West Lafayette, Ohio—O. W. Coombs, Sales Co., 1026 S. Olive St., Los Angeles 15; Bruce-Emmett Co., 830 S. E. Alder St., Portland 14, and 1016 First Ave. South, Seattle 4; Chas. A. Blakely, 754 Natoma St., San Francisco.

ACADEMY ELECTRICAL PRODUCTS CORP., 3842 Ninth Ave., New York 34, N. Y. — Eckert-Lloyd Co., 1950 Naomi Ave., Los Angeles, and 1225 6th St., San Francisco; Lynn & Brooks, 9931 N.E. Mason St., Portland, also Seattle and Denver.

ACCOUSTICA ASSOCIATES, INC., 10400 Aviation Blvd., Los Angeles 45, Calif.—Long & Associates, 505 Middlefield Rd., Redwood City, Calif.

ACCURATE INSULATED WIRE CORP., 25 Fox St., New Haven, Conn.—McLoughlin Co., Box 3255 Terminal Annex, Los Angeles; Fred D. Benz Co., 520 4th St., San Francisco.

ACCURATE MANUFACTURING CO., 44 Hapworth Place, Garfield, N. J.—F. J. Airey Co., 2324 E. Hunter St., Los Angeles 21; Electric Agencies, 506 Second Ave., Seattle 4; L. B. Putnam Co., 2013 Welton St., Denver, and P. O. Box 2435, Salt Lake City; R. L. Brewer Co. Inc., P. O. Box 1547, El Paso, Tex.; Electrorep, Inc., 220 15th St., San Francisco (See ad, p. 1)

ACEC ELECTRIC CORP., 40 East 49th St., New York City 17—Incandescent Supply Co., 255 Commercial St., San Jose, Calif.

ACKERMAN-JOHNSON CO., 625 W. Jackson Blvd., Chicago 6, Ill.—Eoff Electric Co., 509 N. W. Tenth Ave., Portland; W. C. Winks, 14th and Washington Sts., Portland; Westinghouse Electric Supply Co., 815 N. W. 12th Ave., Portland; C. W. Marwedel, 1235 Mission St., San Francisco; Los Angeles Wholesale Electric Co., 214 E. Third St., Los Angeles; C. D. Belt & Co., 2149 S. Clermont, Denver 22; Pacific Elec. Sales, 140 S. E. 28th Ave., Portland 14.

ACME ELECTRIC CORP., 40 Water St., Cuba, N. Y. —H. M. Denny Co., 3410 16th Avenue West, Seattle 99; K. L. Burton, 1834 Valleta Dr., San Pedro, Calif.; Hieber Co., 5595 W. Iowa Ave., Denver; Shefler Kahn Co., 240 S. 1st Ave., Phoenix.

ACME ELECTRIC WELDER CO., 2618 Fruitland Ave., Los Angeles 58, Calif. — Ralph B. Lundy, 1063 Howard St., San Francisco; J. E. Haseltine Co., 115 S.W. 2nd Ave., Portland; 510 First Ave. South, Seattle, and N. 1101 Division St., Spokane; Arizona Welding Equip. Co., 815 East Broadway, Tucson, Ariz., and 415 South 7th St., Phoenix, Ariz.

ACME GAUGE & INSTRUMENT CO. INC., 30 Main St., Brooklyn 1, N. Y.—Jensen Instrument, 429 Bryant St., San Francisco and 1919 Beverly Blvd., Los Angeles.

ACME INDUSTRIES, INC., 600 N. Mechanic St., Jackson, Mich.—Thomas Babington, 1029 N. 1st St., Phoenix; R. L. Ballinger, 503 Maritime Bldg., Seattle; Thomas Davenport, 272 LaCruz Ave., Millbrae, Calif.; Fluid Refrig. Equip. Eng., 6022 W. Pico Blvd., Los Angeles; Winston W. Ebmeyer, 2905 N. Mississippi St., Portland; Sabol & Rice, 1961 Longview Dr., Salt Lake City; W. M. Carroll, 322 1st St. N. W., Albuquerque, N. M.

ACME LIGHTING & MFG. CO., 949 East 31st St., Los Angeles 11, Calif. — Agent: Arthur & Allen, 420 Market St., San Francisco; Distributors: Sunlight Elec. Supply, 205 W. Market, San Diego; Elec'l Contractors Supply, 205 S. Third Ave., Pocatello, Ida.; Superior Sales Co., 17225 19th St., Sacramento; Portland Elec. & Plumbing Co., 905 S. W. 16th Ave., Portland; Hussar Elec. Supply Co., 103 N. Park Ave., Tucson; Elec. Dist. Co., 1530 E. Washington, Phoenix; Inland Pipe & Supply, Yakima, Wash.; NePage Elec. Supply, 800 Pine St., Seattle; Pavell Elec. Supply, 1025 S. I St., Las Vegas, Nev.; General Electric Supply Co., 618 S. 8th St., Boise, and 312 W. 2nd So. St., Salt Lake City; Walters Wholesale Elec. Co., 18626 Susana Rd., Compton, Calif.; The Von Hamm Young Co. Ltd., P. O. Box 2630, Honolulu 3, Hawaii.

ACME LITE PRODUCTS CO., Congers, N. Y.—E. E. Strandholm, 3422 N. E. Halsey St., Portland; Lee Terry, Inc., 9138 S. Western Ave., Los Angeles.

ACME STEEL CO., 135th & Perry Ave., Chicago, Ill. —Branch offices: H. H. Gamble, Mgr., 1025 6th Ave., S., Seattle; S. J. Johnson, Mgr., 4901 Pacific Blvd., Los Angeles; W. H. Smythe, Mgr., 750 Second St., San Francisco.

ACME WIRE CO., 1255 Dixwell Ave., New Haven 14, Conn.—Insulation Supply Co., Ltd., 779 E. Pico Blvd., Los Angeles 21 (Rep. on Varnished Electrical Insulations); J. R. Robbins, 9046 Sunset Blvd., Los Angeles (Rep. on magnet wire—coils—varnished insulations—varnishes and components); Randolph Engineering Corp., P. O. Box 2097, El Monte, Calif. (Rep. for utilities products Div.).

ACORN INSULATED WIRE CO., INC.—36 Freeman St., Pawtucket, Rhode Island—Keeler, White Co., 615 Seventh St., San Francisco; Keeler, White Inc., 523 N. W. Everett St., Portland 9, and 1041 Sixth Ave., South, Seattle; John Carder, Jr. Co., 1624 First St., N. W., Albuquerque.

ACRA ELECTRIC CORP., 9901 Pacific Ave., Franklin Park, Ill.—R. S. Hopkins Co., 15016 Ventura Blvd., Sherman Oaks, Calif.; H. D. Campbell Co., 220 Ninth St., Seattle 9.

ACRO DIV., ROBERTSHAW-FULTON CO., 2040 E. Main, Columbus, Ohio — Fred F. Alleman, 1625 Blake Ave., Los Angeles; Fisher Switches, Inc., 40 Gough St., San Francisco; C. B. Parsons, 3028 First Ave., Seattle; Shefler-Kahn Co., 240 So. 1st Ave., Phoenix; C. P. Elliott, 661 Delaware, Denver 4.

ADALET MFG. CO., 14300 Lorain Ave., Cleveland 11, Ohio—John H. Ormond Co., 600-16th St. Oakland, Calif.; Jim Dawson Co.; 611 Delaware St., Denver; John Carder Jr. Co., 1625 First St., N. W., Albuquerque.

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Salt Lake City 7
Phone: CR 7-4189

PACIFIC COAST
George P. Wilcox Company
4802 Loma Vista
Los Angeles 58
Phone: LUdlow 3-7312

L. B. ALLEN CO. INC. 9310 Berenice (Metropolitan Chicago) Schiller Park, Illinois

ADAM ELECTRIC CO., FRANK, 3650 Windsor Place, St. Louis, Mo.—Smith & Thomas Co., 568 1st Ave. S., Seattle, and 5802 N. E. 73rd St., Portland; Tri-Western Agency, 1327 Major St., Salt Lake City; Marshall Elmove, 140 Little Flower Rd., El Paso, Tex.; Electrical Sales Co., 2445 Clement St., San Francisco.

ADAMS & WESTLAKE CO., 1025 N. Michigan St., Elkhart, Ind.—The A. W. Nash Co., 2112 S. Atlantic Blvd., Los Angeles 22; C. B. Parsons & Co., 3028 First Ave., Seattle; T. R. Routh Co., 1209 Capuchino Ave., Burlingame, Calif.

ADJUSTABLE FIXTURE CO., 104 E. Mason St., Milwaukee 2, Wis.—California Electrical Supply, Folsom at 12th St., San Francisco; Graybar Electric, 1750 Alameda St., San Francisco. Leading wholesalers all cities.

ADJUSTA-POST MFG. CO., 908 St. Clair St. ,Akron, Ohio—Bach Associates, 191 Oneida St., Denver.

ADMIRAL CORP., 3800 Cortland St., Chicago, Ill.—Cunningham Distributing, Inc., 615 Haines, N. W., Albuquerque; Admiral Distributing Corp., 495 Beach St., San Francisco, P. O. Box 2092 Terminal Annex, Los Angeles, and P. O. Box 1270, San Diego; Neil Distributors, Inc., 210 N. Ralph St., Spokane; John E. Amberg Co., 757 Harrison St., Seattle; Seaport Appliance, Inc., 3055 N. W. Yeon Ave., Portland.

ADVANCE TRANSFORMER CO., 2950 N. Western Ave., Chicago, Ill.—Branch offices: 5014 Hampton St., Los Angeles, and 303 Portage Ave., Palo Alto, Calif.; Pete Bach Electric, 1233 N. W. 12th Ave., Portland; Nelson Co., 710 E. Louisiana Ave., Denver; Bob Wilkinson, P. O. Box 1871, Salt Lake City; Bob Higgins, P. O. Box 938, Albuquerque; Doug Cleveland, P. O. Box 13546, Phoenix; Lyle Heaton, 602 123rd N. E., Bellevue, Wash.

AEMCO INC. (formerly Automatic Electric Mfg. Co.), 10 State St., Mankato, Minn. — R. B. Clapp Co., 5404 Alhambra, Los Angeles 13; The Ballard Co., 407 Sansome St., San Francisco; J. E. Way, 925 Westlake Ave. N., Seattle.

AERO INSTRUMENT CO., 11423 Vanowen St., North Hollywood, Calif. — Hollis Jewell Co., 5422 W. Washington Blvd., Los Angeles 16; Kierulff Electronics, Inc., 820 W. Olympic Blvd., Los Angeles 15; Wallace E. Connolly, 160 Gabarda Way, Menlo Park, Calif.; N. R. Schultz Co., 320 - 2nd & Cherry Bldg., Seattle 4.

AERO RESEARCH INST. CO., INC., 315 N. Aberdeen, Chicago, Ill.—R. J. Hudson, 5248 Van Nuys Blvd., Van Nuys, Calif.; Cerruti & Associates, 116 Cypress St., Redwood City, Calif.; Burt C. Porter, 1209 Poplar Pl., Seattle; Brooks-Feeger & Assoc., in following cities: 5510 Domingo Rd., N. E., Albuquerque; 3041 S. Broadway, Englewood, Colo.; 34-A E. First St., Scottsdale, Ariz.; 253 Rio Grande, Salt Lake City.

AERO SERVICE CORP., 210 E. Courtland, Philadelphia 20, Pa.—E. E. Dando, 68 Post St., San Francisco 4; Herbert Lee, 33 Richards St., Salt Lake City.

AEROTEC INDUSTRIES INC., Greenwich, Conn. — Thomas Machinery Sales, Inc., 2173 Colorado Blvd., Los Angeles; Fulcher Co., 24 California St., San Francisco; Landes, Zachary & Peterson Co., 601 S. Jason St., Denver; 4900 Domingo Rd., N.E., Albuquerque, and 2137 Mills St., El Paso; Fairman B. Lee Co., 241 Central Bldg., Seattle.

AEROVENT FAN CO., INC., Ash and Ball Sts., Piqua, Ohio—Sharpe Eng. Co., 1266 S. Boyle Ave., Los Angeles; George E. Mead, 501 Arctic Bldg., Seattle 4; Mead & Associates, 317 S.W. Alder, Portland; Rex R. Reece, 5228 F St., Sacramento; Aero Supply Co., Box 3398 (Alcott Sta.), Denver; W. M. Walterskirchen, Box 1163, Missoula, Mont.

AGA DIV., ELASTIC STOP NUT CORP. OF AMERICA, 1027 Newark Ave., Elizabeth, N. J.—John C. Henberger, 4434 Ingraham Ave., San Diego; R. B. Clapp Co., 5404 Alhambra Ave., Los Angeles 32; McCarthy-Hood & Assocaites, 1485 Bayshore Blvd., San Francisco; Seatronics, Inc., 1806 Bush Place, Seattle 44; Mt. States Machinery Co., 1526 Blake St., Denver 2; Pace-Turpin Co., 726 S. Third West, Salt Lake City; Andrew Polich, Inc., 734 N. W. Glisan, Portland.

AIR-LECTRIC TOOLS, 6210 Compton, Los Angeles 1, Calif.

AIR-MAZE CORP., Cleveland, Ohio—Jules D. Gratiot Co., 3423 Verdugo Road, Los Angeles 65.

AIRPOWERED HOT-STICK, INC., (see Auto Hot-Stick.)

AIR-TRON, INC. (Formerly Roy C. Stove Co.), 3536 W. 16th St., Indianapolis, Ind.—Westinghouse Electric Supply, General Electric Supply and Sylvania Electric Supply houses in all principal cities.

AJAX ELECTROTHERMIC DIV. (See Ajax Magnethermic Corp.)

AJAX ENGINEERING CORP., Lalor & Hancock Sts., Trenton, N. J.—A. W. Nash Co., 2112 So. Atlantic Blvd., Los Angeles 22.

AJAX FLEXIBLE COUPLING CO., INC., Portage and English Sts. Westfield, N. Y.—Samson Sales, 420 Market St., San Francisco; A. W. Nash, 2112 S. Atlantic Blvd., Los Angeles 22; Haultain-Champion Co., 320 East 8th St., Oakland 6; J. S. Thurlow, 2405 Eleventh Ave., S. W., Seattle 4.

AJAX MAGNETHERMIC CORP., Ajax Electrothermic Div., Ajax Eng. Div., Magnethermic Div., 3990 Simon Road, Youngstown 1, Ohio—Albert W Nash, 2112 S. Atlantic Blvd., Los Angeles 22; George H. Thurston, 1 Estates Court, Orinda Calif.; Tracy C. Jarrett, 95 S. Ammons St. Denver 15, Colo.

ALADDIN HEATING CORP., 1111 West Ave. 137 San Leandro, Calif.

ALBERTSON & CO., INC., 3100 Lowell Ave., Sioux City, Iowa—C. C. Beebe, 2058 W. 78th Place, Los Angeles; N. A. Post, 10308 S. Julius Ave., Downey, Calif.; K. E. Lagerberg, 2121 Routt Road, Denver 15; J. M. Cornish, 400 Perkins St., Oakland; A. E. Mjoen, 3312 E. Republican, Seattle; Dale Thompson, W. 1423 Glass, Spokane.

ALCO VALVE CO., 865 Kingsland Ave., St. Louis 5, Mo.—Pacific Scientific Co. (in following cities). 760 Harrison St., San Francisco; 6280 Chalet Dr. (Los Angeles), Bell Gardens, Calif.; 1218 S. E. 7th Ave., Portland, and 421 Michigan St., Seattle.

ALKALINE BATTERIES CO., 750 Natoma St., San Francisco 3.

ALKCO MFG. CO., 4224 N. Lincoln Ave., Chicago, Ill.—M. J. Hooey & Co., 1485 Bayshore Blvd., San Francisco.

ALL-BRITE LIGHTING DIV., 352 Shaw Road, South San Francisco, Calif.—(See Curtis-AllBrite)

ALLEGHENY LUDLUM STEEL CORP., 2020 Oliver Bldg., Pittsburgh, Pa.—Branch offices, Box 6848 Los Angeles 22; 36 Berry St., San Francisco 7; Terminal Sales Bldg., Portland 5; 3327 White-Henry Stuart Bldg., Seattle 1.

ALLEN COMPANY, INC., L. B., 9310 Berenice (Metropolitan Chicago), Schiller Park, Ill.—George P Wilcox, 4802 Loma Vista, Los Angeles 58; Jack Coffin Co., 1601 East 48th St., South, Salt Lake City 7, Utah. (See ad, p. 2)

ALLEN-BRADLEY CO., 136 W. Greenfield Ave., Milwaukee, Wis.—Branch Office: 1264 S. Boyle Ave., Los Angeles 23; Campbell & George Co., 1601 Cortland Ave., San Francisco 10; Young Electric & Mfg., 2134 Curtis St., Denver 5; James A. Setchell, 7915 Nichals St., San Diego 1; A & A Supply Co., 114 Morningside Dr., N. E., Albuquerque, N. M.; Stevens Sales Co., 1476 Major St., Salt Lake City 10; Edw. P. Weller & Co., 6708 No. 48th St., Phoenix; J. A. Tudor Associates, Inc., 2605 Western Ave., Seattle 1, and 1004 S.E Belmont St., Portland 14; W. Bert Knight Co., 10377 W. Pico Blvd., Los Angeles 64, Calif. Stocking Distributor: Phillips & Edwards Elec. Corp., 265 Vermont St., San Francisco 3; Redwood City, Stockton. Incandescent Supply Co., Redding.

ALLEN COOLER & VENTILATOR, INC., 704 Woodward Ave., Rochester, Mich.—Air Equip. Sales Co. 3020 Glendale Blvd., Los Angeles 31; GMW Sales, Inc., in following cities: P. O. Box 208, Butte, Mont.; Dunham Bldg., Denver, and Continental Bank Bldg., Salt Lake City; Goodyear Rubber & Supply Co., 205 N. W. 5th Ave., Portland; J. C. Kelly Co., 1. 3008 Trent Ave., Spokane 24; Oliphant Commercial Corp., 1287 66th St., Emeryville, Calif.

ALLEN-STEVENS CONDUIT FITTINGS CORP., 33 62nd St., Woodside, N. Y.—Kobert-Phillips Co., 331 Winston St., Los Angeles; Bach Associates, 191 Oneida St., Denver; Ray Alexander, 480 Horrocks Dr., Blackfoot, Ida.; Pete Bach Electric, 1233 N. W. 12th Ave., Portland; Bergman-Marshall, Inc., 1370 Van Dyke, San Francisco.

ALLEN MANUFACTURING CO., Bloomfield, Conn.-George R. Newton, 6935 E. Bandini Blvd., Los Angeles 22; Robert P. Marks, 1485 Bayshore Blvd., San Francisco 24.

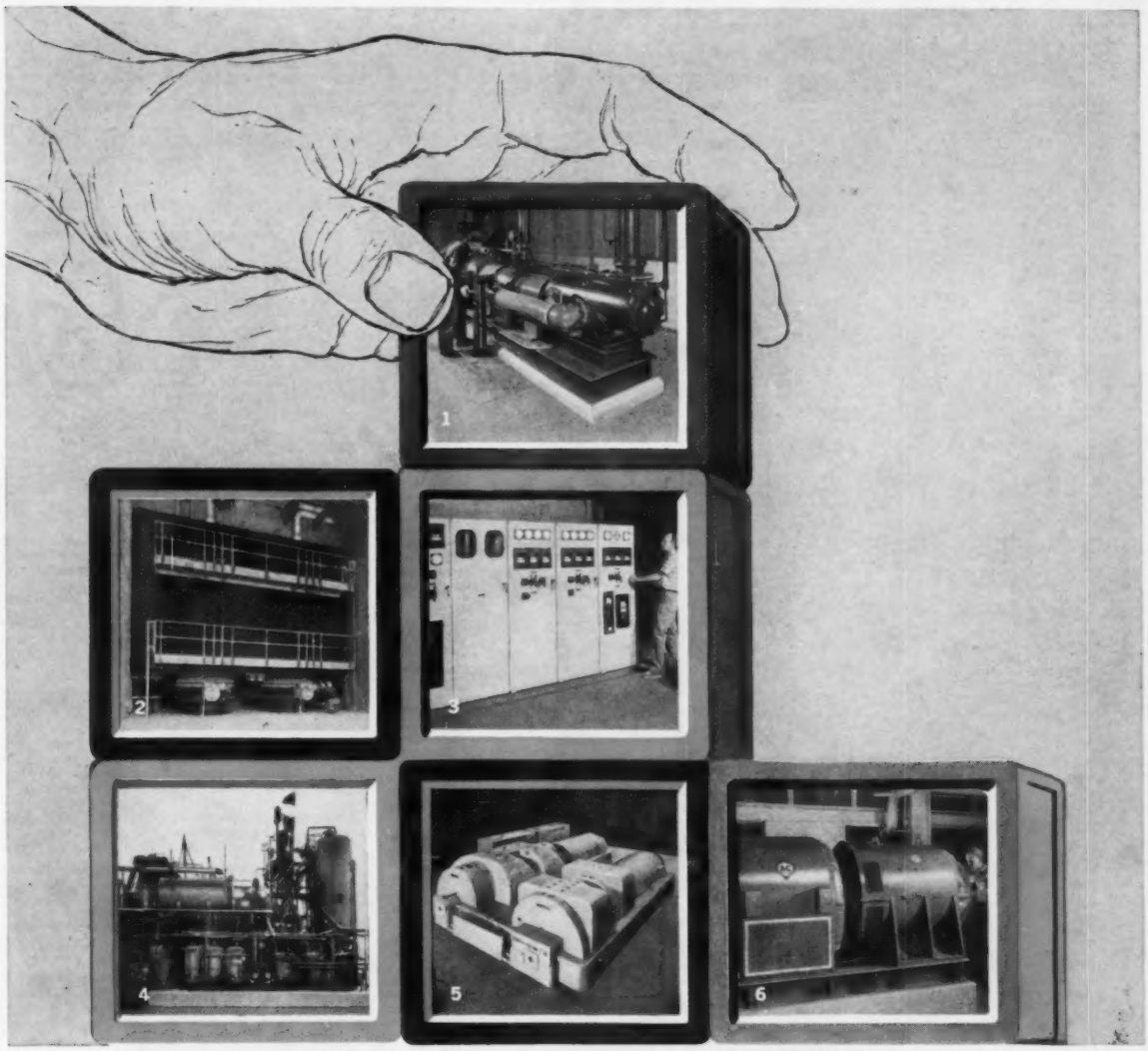
ALLIED CONTROL CO. INC., 79th at East End Ave., New York 21—Branch: 1326 Flower St., Glendale, Calif.

ALLIS-CHALMERS MFG. CO., 1126 S. 70th St., Milwaukee, Wis.—Factory Tractor Branches: Earl Begley, Mgr., 2501 Fourth Ave. N., Billings; George R. Gorham, Mgr., 4440 E. 49th St., Los Angeles, G. W. Schierman, Mgr., 1400 Park Ave., Oakland, O. E. Lieberg, Mgr., 602 S. First Ave., Pocatello; A. D. Reichard, Mgr., 1305 S.E. Union Ave. Portland.

ALLIS-CHALMERS MFG. CO., 1126 S. 70th St., Milwaukee, Wis.—R. L. Engel, Manager, Pacific Region, 41 Sutter St., San Francisco. District Offices: T. E. Meyers, Manager, 650 Harrison St., San Francisco; D. E. Steele, Manager, 417 S. Hill St., Los Angeles; W. J. Myers, Branch Mgr., 747 Ninth Ave., San Diego; G. K. Lewis, Manager, 2300 S. E. Beta St., Portland; S. C. Bacon, Manager, 1325 4th Ave., Seattle; R. D. Moody, Manager, Rocky Mountain Region. District Offices: L. B. Gay, Manager, 655 Broadway Bldg., Denver; B. A. Sears, Manager, 136 S. Main, Salt Lake City; W. C. Nesbeitt, Manager, West 12 Indiana Ave., Spokane; W. C. Kinnon, Mgr., 3300 North Central Ave., Phoenix; Malcolm S. Jones, Manager, 502 Electric Bldg., El Paso. (See ad, p. 3)

ALLIS-CHALMERS

A-1271



1. compressors, 2. condensers, 3. switchgear, 4. water conditioning, 5. steam turbines, 6. motor-generator sets.

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Allis-Chalmers range is wide — individual electrical products to complete power systems. And one A-C representative acts *in your interest*. He's the power product coordinator helping you plan and build better.

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(See listing sales offices page 2)

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- *Arizona Gear & Mfg. Co.*
- *Burndy Corporation* (U. I. DIVISION)
- *Collyer Insulated Wire Company*
- *Convair Instruments* (DIVISION OF GENERAL DYNAMICS)
- *Halex, Inc.*
- *Hughes Aircraft Company* (INDUSTRIAL SYSTEMS DIVISION)
- *Husky Products, Incorporated* (DIVISION OF BURNDY CORPORATION)
- *Kurz & Root* (COMMERCIAL DIVISION)
- *Lapp Insulator Co., Inc.*
- *Lotran, Inc.*
- *Phelps Dodge* (Mil-C-13777 only)
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- *Slater Electric Mfg. Co.*
- *Standard Elec. Products Co.*
- *Stromberg Carlson*
- *Western Switchboard*

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ALLIS CO., LOUIS, 427 E. Stewart St., Milwaukee, Wis.—The Louis Allis Co., 1275 Rollins Rd., Burlingame, Calif.; 700 5th Ave. S., Seattle; 2035 S. W. 58th Ave., Portland, and 4405 E. Olympic Blvd., Los Angeles; 2801 E. Colfax, Denver 6; Roy E. Coulson Co., 8050 N. 3rd Ave., Phoenix; Elec'l Sales Co., P. O. Box 49, Sugarhouse Sta., Salt Lake City.

ALLMETAL ENGINEERING, INC., 1003 S. Date Ave., Alhambra, Calif.—L. M. Baxter Co., 1238 N. W. Glisan St., Portland; Roth Sales Co., 630 Jasmine St., Denver.

ALL-STEEL EQUIPMENT, INC., 245 John St., Aurora, Ill.—The Sanderlin Co., 129 First Ave. W., Seattle and 56 S.E. Belmont St., Portland 14; Geer Sales 1223 Quivas St., Denver 4; Elkins Elec. Agency, 235 S. Alameda St., Los Angeles 12; Baxter Co., 101 Kansas St., San Francisco.

ALPHA ELECTRIC PRODUCTS CO., 3625 N. Halsted St., Chicago, Ill.—Western Control Equipment Co., 14615 Ventura Blvd., Sherman Oaks, Calif.

ALPHA METALS INC., 56 Water St., Jersey City, N. J.—Branch 2343 Saybrook Ave., Los Angeles 22.

ALPHA WIRE CORP., 200 Varick St., New York City —Branch office: 1871 S. Orange Dr., Los Angeles 19; Perimuth Electronic Associates, 3057 W. Washington Blvd., Los Angeles 16; Samuel N. Stroum Co., 621 Michigan, Seattle 4; Bill Kolans & Co., 219 California Dr., Burlingame, Calif.; Hyde Electronics Co., 888 S. Lipan St., Denver 23.

ALPHADUCT WIRE & CABLE CO., 25 Van Dyke Ave., New Brunswick, N. J.—Leich Sales Corp., 11401 West Pico Blvd., West Los Angeles, Calif.; Automatic Electric Sales Corp., 55 New Montgomery St., San Francisco; 4415 W. Pico Blvd., Los Angeles 19, and 644 Central Bldg., Seattle 4.

ALRECTIC DIVISION, McGraw-Edison Co. (Formerly Handley Brown Co.), 2101 Brooklyn Road, Jackson, Mich.—Bill Horning Sales, 902 Friedel Ave., Vancouver, Wash.; Industrial Eng. & Equip Co., 2915 Wilshire Blvd., Los Angeles. Poles exclusively thru Line Material Industries sales offices. Branches in all principal cities.

ALUMINUM BODY CORP., Washington St. at Vail, Montebello, Calif.

ALUMINUM COMPANY OF AMERICA, Alcoa Bldg., Pittsburgh, Pa.—(See Rome Cable Division)

ALUMINUM INDUSTRIES, INC., 3670 Werk Road, Cincinnati, Ohio—Northwest Factory Agents, 205 Lenora St., Seattle 1; Edward J. Ryan, 1863 Wazee St., Denver 2; C. Stuart McPherson, 117 Glenwood Ave., Woodside, Calif.

ALUMINUM PRODUCTS, INC., P. O. Box 1462, Fort Lauderdale, Fla.—Branch Office: P. O. Box 91, San Mateo, Calif.; M. C. Guire Co., 715 S. York St., Denver; Industrial Engineering & Equipment Corp., 2975 Wilshire Blvd., Los Angeles 13; Steve Cinkosky, 402 Fillmore St., Denver; Scott Equipment Co., 55 Brady St., San Francisco; Pacific Utilities Supply Co., 141 King St., San Francisco.

ALWALT MFG. COMPANY, 1706 Lapham Drive, Modesto, Calif. — Guenther & Tate Co., 825 Taylor Ave., Seattle 9, and 79 S. E. Taylor, Portland; Agencies Co., 836 Traction Ave., Los Angeles 13; Easter-Owens Electric Co., 610 S. Lipan St., Denver 23; James D. Stephens, P. O. Box FG123, Salt Lake City; Brill Electric Sales, 123 Kansas St., San Francisco 3; Hugh L. Bargion, P. O. Box 3679, Honolulu 11, Hawaii.

AMADCO—(See Associated Manufacturers & Distributors)

AMCO PLASTIC PIPE CO., 2002 Davis St., San Leandro, Calif.; Howe & Howe, 4328 N. 42nd St., Phoenix.

AMERICAN BLOWER DIV. (see American Standard).

AMERICAN BRASS CO., Anaconda Metal Hose Division, 698 South Main St., Waterbury 20, Conn. (See Anaconda Metal Hose) (See ad, p. 7)

AMERICAN CHAIN & CABLE CO., INC., AMERICAN CHAIN DIVISION, 454 E. Princess St., York, Pa.—Branch offices: 6800 E. Acco St., Los Angeles; 890 Tennessee St., San Francisco; 2210 N. W. Roosevelt St., Portland, and 4555 E. 46th Ave., Denver.

AMERICAN CHAIN & CABLE CO., INC., Page Steel and Wire Div., 1st and River Sts., Monessen, Penna.—Branch offices: 6800 E. Acco St., Los Angeles; 890 Tennessee St., San Francisco, and 4555 E. 46th Ave., Denver; Maydwell & Hartzell, Inc., in following cities 870 Tennessee St., San Francisco 7, 427 W. 5th St., Los Angeles 13, 5823 Henley Dr., San Diego, 120 S. 29th St., Phoenix, 2318 N. W. Vaughn St., Portland 10, 803 W. Jackson, Medford, 306 Dexter Ave., Seattle 9, 121 S. Monroe St., Spokane 8, 110 East 6th St., Tucson.

AMERICAN CONTROL CORP., 133 E. Palmer Ave., Compton, Calif.

AMERICAN CROSSARM & CONDUIT CO. DIV. (see A. B. Chance Co.)

AMERICAN ELECTRIC CABLE CO., 181 Appleton St., Holyoke, Mass.—Walter E. Pollock & Assoc., 1472 Cardiff Ave., Los Angeles 35; Electrical Mfg. Rep. Inc., P. O. Box 3425, Terminal Annex, Los Angeles; Howell Sales, Inc., 4637 Dudley, Arvada, Colo.

AMERICAN ELECTRIC FURNACE, INC., 300 Freeport St., Boston 22, Mass.—Allied Northwest Machine Tool Corp., 103 S. W. Front Ave., Portland 4, and 1921 First Ave., S., Seattle 4.

AMERICAN ELECTRIC HEATER CO., Cass at Burroughs, Detroit 2, Mich.—Maddox Sales Co., 914 East Third St., Los Angeles 13.

AMERICAN ELECTRIC HEATING & AIR COND. CORP., 638 N. Robertson Blvd., Los Angeles—Pacific Wholesale Electric Co., 711 Union St., San Diego 12; Cowan Products Co., 808 R St., Sacramento 14, Calif.; Columbia Sales, 721 Dearborn St., Seattle 4.

AMERICAN ELECTRIC MFG. CORP., 3271 Chelsea Ave., Memphis, Tenn.—Ralph L. Mooney, 540 E Rose Lane, Phoenix; R. E. Cunningham & Sons, 530 W. 6th St., Los Angeles; Paul S. Everley Co., 550 9th St., San Francisco; Thomas S. Wood Co., 229 9th Ave. N., Seattle; R & M Sales, 2214 S. Clayton, Denver; Utilities Supply Co., 419 S. 7th, Phoenix.

AMERICAN ELECTRIC SWITCH DIV., Clark Controller Co., 1146 East 152nd St., Cleveland 10, Ohio—The Clark Controller Co., 4755 E. 49th St., Los Angeles 58, 1770 Yosemite Ave., San Francisco.

AMERICAN ELECTRONICS INC., 1725 West 6th St., Los Angeles 17, Calif.—Electro-Mechanical Div., 4811 Telegraph Rd., Los Angeles 22; Electric Machinery & Equip. Div., 2112 N. Chico St., El Monte, Calif.; Instrument Div., 9503 W. Jefferson Blvd., Culver City; American Nuclear Div., 9459 W. Jefferson Blvd., Culver City; American Laboratories Div., 1536 E. Ross Ave., Fullerton, Calif.; Precision Power Div., 9705 Klingerman St., El Monte.

AMERICAN ENGINEERING CO., Wheatsheaf Lane and Sepviva St., Philadelphia 37, Pa. (Hoist) — F. E. Bennett Co., 426 N. W. 6th, Portland; Elder Co., 333 Seventh St., San Francisco; Foster Equipment Co. Ltd., 719 Ahua St., Honolulu, Hawaii; Cordes Bros. (Marine), 45 California St., San Francisco, and 305 W. F St., Wilmington, Calif.

AMERICAN EQUIPMENT & BODY CO., 1461 E. Washington, Los Angeles.

AMERICAN FLEXIBLE CONDUIT CO., 969 Shawmut Ave., New Bedford, Mass.—Thomas D. Noble Co., 210 12th St., San Francisco; Pacific Electric Sales Co., 140 S.E. 28th Ave., Portland; California Conduit & Cable Co., 2204 Orange St., Alhambra, Calif.

AMERICAN FLEXIBLE DIV., Zurn Industries, Inc., 1840 Pittsburgh Ave., Erie, Pa.—Bearing Sales & Service, Inc., 2908 Sixth Ave., South, Seattle 4, and 1645 N. W. Hoyt St., Portland; Mark-Costello Co., 6511 Whittier Blvd., Los Angeles 22, and 3022 Voltaire St., San Diego.

AMERICAN LAVA CORP., Cherokee Blvd. and Mfgr.'s Road, Chattanooga, Tenn. — Minnesota Mining & Mfg. Co., 320 Shaw Road, South San Francisco, Calif.; 6023 S. Garfield Ave., Los Angeles 22, and 3663 First Ave., South, Seattle 4.

AMERICAN LIGHTING EQUIPMENT CO., 1429 S. Eastern Ave., Los Angeles 22.

AMERICAN MACHINE & METALS, INC. (De Bothezat Fans Div.), 48 Thomas St., East Moline, Ill. — (See De Bothezat Fans Div.)

AMERICAN METAL MOULDING CO., 146 Colt St., Irvington, N. J.—Everett T. Vonier, Inc., 1160 Elati St., Denver 4.

AMERICAN MOULDED PRODUCTS CO., Bryan, Ohio —Guy deLeuze Co., 1923 Bryant St., San Francisco.

AMERICAN OPTICAL CO., Mechanic St., Southbridge, Mass. — American Optical Co., Safety Products Div., 25 Kearny St., San Francisco; 1433 Cole Place, Hollywood; 312 Dexter Ave. N., Seattle, and 644 Delaware St., Denver.

AMERICAN PAMCOR, INC., 181 Hillcrest Ave., Havertown, Pa.—Peters-deLeet, Inc., 1606 Rollins Rd., Burlingame, Calif.; 1277 S. W. 11th, Portland 5; 1331 Third Ave., Seattle; 212 Beason Bldg., Salt Lake City, and 1207 W. College, Spokane. Branch: 3138 W. El Segrendo Blvd., Hawthorne, Calif.

AMERICAN PIPE AND CONSTRUCTION CO., 4635 Firestone Blvd., South Gate, Calif. — Branches: 2001 W. Alquire Rd., Alvarado, Calif.; 2910 Kurtz St., San Diego; 2025 S. 7th St., Phoenix, and 5100 Williams St., S. E., Albuquerque.

AMERICAN PULLEY CO., 4200 Wissahickon Ave., Philadelphia, Penna.—Henry F. Adams, 911 Western Ave., Seattle; G. P. Weishaar, 880 51st Ave., Oakland, Calif.; W. W. Ower, 1238 S. Atlantic Blvd., Los Angeles.

AMERICAN RECTIFIER CORP., 95 Lafayette, New York, N. Y.—J. A. Tudor & Assoc., 2605 Western Ave., Seattle 1, and 1004 S. E. Belmont, Portland.

AMERICAN SAW & MFG. CO., Boylston and Emery St., Springfield, Mass.—The Wayne C. Wells Co., 6055 N. E. Glisan, Portland.

AMERICAN SCREW CO., 1662 West Main St., Willimantic, Conn.—David Winslow Co., 25 California St., San Francisco 11; Ralston R. Cunningham Co. Inc., 71 Columbia St., Seattle 4; Clarence F. Herrmann Co., 420 S. San Pedro St., Los Angeles 13; P. W. Sheppard & Associates, 1219 California St., Denver.

AMERICAN SEALANTS CO., 353 Woodbine, Hartford 6, Conn.—Northwest Sales & Eng. Service, 420 Market St., San Francisco, and 915 Terminal Bldg., Seattle; Don Porter Co., 1117 S. Robertson Blvd., Los Angeles 35; Paul R. Spencer Co. Inc., 4000 York St., Denver 5 and P. O. Box 1633, Albuquerque, and 2520 S. State St., Salt Lake City.

AMERICAN SOLENOID, Union City, N. J.—Control Switches, 6241 W. 89th St., Los Angeles.

AMERICAN-STANDARD, American Blower Div., 1900 First Ave., San Leandro, Calif. — Branch offices: 132 S. Central Ave., Phoenix; 506 Douglas Oil Bldg., Los Angeles 17; Security Bldg., Sacramento 16, Calif.; 821 Market St., San Francisco 5; 1304 Cherokee St., Denver 4; 209 M and R Bldg., Billings; 142 Monroe N. E., Albuquerque; 458 S. Third, E., Salt Lake City, and 1305 Republican St., Seattle 9.

AMERICAN STEEL & IRON WORKS, 5801 S. Lowe Ave., Chicago, Ill.—West Pacific Sales Co., 1825 S. W. 6th Ave., Portland, and 325 Second Ave. West, Seattle; Electric Sales Corp., 211 Umatilla, Denver 23; John W. Reynolds, 1481 S. Main St., Salt Lake City; Frank J. Hornsby, 753 42nd Ave., San Francisco.

AMERICAN STEEL & WIRE DIV., U. S. Steel Corp., 842 Rockefeller Bldg., Cleveland, Ohio—Columbia Geneva Steel Div., U. S. Steel Corp., in following cities; 120 Montgomery St., San Francisco; 2087 E. Slauson Ave., Los Angeles; 2345 N.W. Nicolai St., Portland; 7th Ave. & Olive Way, Seattle; Walker Bank Bldg., Salt Lake City 1.

AMERICAN THERMOSTAT CORP., Rte. 23, South Cairo, N. Y.—Sales Engineers, Ltd., 7919 Monroe St., Paramount, Calif.

AMMERMAN CO., INC., P. O. Box 182, Stillwater, Minn.—Charles S. Davis, 3529 Monte Vista Blvd., N. E., Albuquerque; Tenaire, Inc., 1029 N. 1st St., Phoenix; J. L. Myers, 204 Davis St., San Francisco; James L. Ewald, 3 West State St., Redlands, Calif.; W. H. Welch, 701 6th Ave. N., Seattle; Nelson Mach. Equip. Co., 124 E. Augusta, Spokane; Mueller Eng. Co., 909 E. 2nd St., Butte.

AMP, INC., Harrisburg, Pa.—Branch: 3138 W. El Segundoo Blvd., Hawthorne, Calif. Distributor: Pamco; Peters-deLeet Inc., 1606 Rollins Road, Burlingame.

AMPERE INDUSTRIES, 60 Boston St., Newark 3, N.J. —W. E. Ferris, 422 W. Roses Road, San Gabriel, Calif. (Industrial Processing Elements only) Space Heating from Newark, N. J. only.

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Directory of Representatives

ANCHOR

UNDERWRITERS LAB., INC. LISTED

METER SOCKETS AND TROUGHS

ANCHOR

A DIVISION OF BPC BASIC PRODUCTS CORPORATION

ANCHOR MANUFACTURING CO., MANCHESTER, N.H.

(See listing, Sales Offices, p. 6)

WRATHALL & KRUSI

MANUFACTURERS' REPRESENTATIVES

681 MARKET ST.
SAN FRANCISCO 5
PHONE EXbrook 7-3593

ANDERSON ELECTRIC CORP.
ELECTRICAL CONNECTORS

BISHOP MFG. CORPORATION
ELECTRICAL TAPES

MALLEABLE IRON FITTINGS CO.
POLE LINE HARDWARE

MULTI-AMP ELECTRONIC CORP.
PORTABLE TEST UNITS

PFAFF & KENDALL
ALUMINUM STANDARDS

POWERDYNE, INC.
POLE TOP SWITCHES

PRECISION MULTIPLE CONTROLS
PHOTO ELECTRIC CONTROLS

SECULATE COMPOUNDS
ANTI CONDENSATION COMPOUNDS

SUBOX, INC.
PROTECTIVE PAINTS

COLUMBIA ELECTRIC MFG. CO. INC.
275 Steuart St., San Francisco, Calif.
Phone: GA 1-6101
Los Angeles, Calif.—CA 5-2328

UNIT SUBSTATIONS • SWITCHBOARDS
GRAPHIC & PROCESS PANELS

(See listing of Sales Offices, p. 17)

AMPEX CORP., Instrumentation Division, 934 Charter St., Redwood City, Calif.—Branch: 8467 Beverly Blvd., Los Angeles, and 331 Town & Country Village, Palo Alto, Calif.

AMPLEX CORPORATION—The Sanderlin Co., 129 1st Ave. West, Seattle, and 56 S.E. Belmont St., Portland; Ray J. Noel, 4315 S. Western Ave., Los Angeles; Wm. Benndorf Co., 221 E. Camelback Road, Phoenix; L. S. Reed Co., 1018 Lawrence St., Denver; R. Lagerstrom, 2739 Tenth Ave., Oakland 6.

ANACONDA METAL HOSE DIVISION, The American Brass Co., 698 South Main St., Waterbury, Conn. Branch Offices: 1255 Post Street, San Francisco; 360 22nd St., Oakland 12; 14900 Garfield Ave., Paramount, Calif.; 909 7th St., Denver; 1311 Tower Bldg., Seattle. Distributors in all principal cities. (See ad, p. 7)

ANACONDA WIRE & CABLE CO., Executive and Sales Headquarters, 25 Broadway, New York 4; Manufacturing and Engineering Headquarters, Hastings-on-Hudson 6, N. Y.; A. W. Tracy, Regional Sales Mgr., 1838 El Camino Real, Burlingame, Calif.; 816 W. 5th St., Los Angeles 17; William K. Gaylord, District Manager, Van Ness Post Bldg., 1255 Post St., San Francisco; Albert Leader, Dist. Manager, 810 Tower Bldg., Seattle 1; K. G. Eaton, District Manager, 706 Railway Exchange Building, Denver 2; Edw. S. McGlone, Dist. Mgr., 405 So. Main St., Salt Lake City; D. Owen Nicholson, Dist. Mgr., 419 Central Towers Bldg., Phoenix.

ANCHOR MANUFACTURING CO., Bedford Street, Manchester, N. H.—Muth-Richards Co., 1804 Bush Place, Seattle; Tudor & Associates, 1004 S. E. Belmont St., Portland; L. S. Reed & Co., 1018 Lawrence St., Denver; John Elggren, 212 West Fourth St., Salt Lake City; Michel Brothers, 1403 East 20th St., Los Angeles 11. (See ad, p. 5)

ANCHOR WEBBING CO., Pawtucket, R. I.—Western Fibrous Glass Products Co., 739 Bryant St., San Francisco, and 4423 Fruitland, Los Angeles.

ANCHOR WIRE CORP., 183 Jamaica Ave., Jamaica 3, N. Y.—Victor Hannon Co., 606 S. Hill St., Los Angeles 14; 681 Market St., San Francisco 5; and 1502 Olive Way, Seattle 22.

ANDERSON ELECTRIC CORP., 700 North 44th St., Birmingham, Ala.—Representatives: Wrathall and Krusi, Inc., 1048 Monadnock Bldg., San Francisco 5; Industrial Eng. & Equipment Corp., 2975 Wilshire Blvd., Los Angeles 5; Muth-Richards Co., 1804 Bush Place, Seattle 44; Hamilton Associates, 1236 Elati St., Denver 4; Andrew L. Polich, Inc., 734 N. W. Glisan St., Portland 9; Makinney (Hawaii), 810 South St., Honolulu, Hawaii.

ANDERSON MFG. COMPANY, Albert & J. M., 289 A St., Boston, Mass.—Industrial Eng. & Equip Corp., 2975 Wilshire Blvd., Los Angeles; North Pacific Electric Agencies, 905 Lloyd Building Seattle.

ANESITE CO., Plastic Pipe & Tube Div., P. O. Box 135, Santa Barbara, Calif.—Line Materials Industries, 6490 E. Fleet St., Los Angeles 22; E. 3303 Ferry St., Spokane 24; 360 Shaw Rd., So. San Francisco; 1333 N. W. 12th Ave., Portland; and 1220 W. Nickerson, Seattle.

ANEMOSTAT CORP. OF AMERICA, 10 E. 39th St., New York City—Williams, Gritton & Wilde, 204 Dooly Bldg., Salt Lake City; Boyd Eng. Co. Inc., 112 Granite, N. W., Albuquerque; Carns, Hoaglund Co., 420 No. 15th Ave., Phoenix; Hess Greiner & Polland, 1706 S. Main St., Los Angeles; Neil Peterson Co., 1485 Bayshore Blvd., San Francisco.

ANSONIA WIRE & CABLE CO., 111 Martin St., Ashton, R. I.—J. T. Hill Co., 420 S. Pine St., San Gabriel, Calif.; Paul D. Jacobs, 420 Market St., San Francisco; R. T. Lewis & Co., 1301 Pierce St., Lakewood, Colo.; Wm. O. Proby & Assoc., 2915 13th Ave. So., Seattle 4; Jack Pruzen Co., 1963 1st Ave. S., Seattle 4; Wm. C. Strehl, 2011 Abbott St., San Diego 7; T. R. Van Wagoner, 1415 S. Main, Salt Lake City.

ANTENNA SPECIALISTS, 12435 Euclid Ave., Cleveland, Ohio—Don H. Burcham Co., 510 N. W. 19th Ave., Portland, and 422 1st Ave. West, Seattle C. A. Hansen, 1406 S. Grand Ave., Los Angeles Logan and Hill, 254 Twelfth St., San Francisco 3.

ANTHONY CO., F. M., 773 University Ave., Berkeley 2, Calif.—John A. Ware & Associates, 301 W "G" St., San Diego 1; Yetter Sales, 10262 San Pablo Ave(El Cerrito, Calif.; Gilson Supply Co. 1148 East 18th St., Oakland, and Heidt Equipment Co., 1600 East 12th St., Oakland; Northern Valley Ind. Equip. Co., P. O. Box 162, Oswego, Ore.

APPLETON ELECTRIC CO., 1701 W. Wellington, Chicago 13, Ill.—Branch Offices: 1485 Bayshore Blvd San Francisco; 6450 E. Bandini Blvd., Los Angeles 1033 Sixth Ave., Seattle; 301 West "G" St., San Diego; 7635 S. W. 82nd, Portland 23, and 777 East 14th Ave., Denver.

APPLETON RUBBER CO., 57 Cornwall St., Boston 30 Mass.—George Kraft Co., 1501 N. W. Kearney St. Portland; Keeler White Co., 615 Seventh St., San Francisco; Hayjax Co., 436 Colyton St., Los Angeles.

APPLIANCE BUILDING CO. INC., 1120 West Idaho Seattle, Wash.—Cliff C. Brown, 4107 W. Holden St., Seattle; L. B. Enoch & Assoc., 9508 S. Main St., Los Angeles; S. M. Purcell, Box 503, Medford, Ore.; Step Sales Agency, 1326 Santa Fe Dr., Denver; Neil W. Wilson, 1331 T St., Sacramento, Calif.; Ernie Stoppelman, Rt. 1, Box 581, Stanwood, Wash.; Bill Fessler, 439 N. Humboldt, Portland; J. C. Gilbertson, 8218 8th South, Seattle.

AQUA-MATIC INC., 2412 Grant Ave., Rockford, Ill. —Montgomery Bros., Inc., 1122 Howard St., San Francisco; 4800 District Blvd., Los Angeles; 1632 N. W. Johnson, Portland; 911 Western Ave., Seattle; 5103 N. Hawthorne, Spokane.

ARCAIR CO., P. O. Box 4227, Bremerton, Wash.—ABSCo., Inc., 4600 W. Jefferson, Los Angeles, Calif. Welding and Equipment Co., 432 Bryant St., San Francisco; Arizona Weld. Equipment, 415 South Seventh, Phoenix; Industrial Specialties, 940 S. E. 7th Ave., Portland; Victor Equipment Co., 840 Folsom St., San Francisco, and 3821 Santa Fe Los Angeles; Heidt Equipment, 1600 E. 12th St., Oakland; General Distributing Co., 711 10th Ave. So., Great Falls, Mont.; Gibson Welding Supplies, East 218 Trent Ave., Spokane 8; Norco, 155. River St., Boise, Ida.; Sierra Oxygen Co., 1500 E. 2nd St., Reno; Western Oxygen Inc., 2447 6th Ave. So., Seattle 4; Whitmore Oxygen Co., 430 E. So. Temple St., Salt Lake City.

ARCOS CORP., 1500 S. 50th St., Philadelphia, Penn. —Branch Office: 6222 Chalet Drive, Bell Gardens, Calif.; Industrial Supply Co., 1647 N. 2nd St., Albuquerque; Consolidated Welding Supply, 747 Grand Ave., Phoenix; General Distr. Co., 711 10th Ave. S., Great Falls, Mont.; Bay Cities Welding Equip. Co., 2549 Lincoln Blvd., Venice, Calif.; Western Supply Co., 2334 N. Grand Ave., Pueblo, Colo.; Whitmore Oxygen Co., 430 S. E. Temple St., Salt Lake City; Allan P. James Co., Inc., 430 Ninth St., San Francisco; Fresno Oxygen Co., P. O. Box 1427, Fresno, Calif.; A & R Equipment Co., 5498 Mission Blvd., Ontario, Calif.; United States Welding Works Co. Inc., 1301 Walnut St., Denver; New Mexico Welding Supply Co., 633 W. Mermod, Carlsbad, N. M.; Industrial Air Products Co., Highway 99 N., Medford, Ore.; 3200 N. W. Yeon Ave., Portland; 520 W. Columbia St., Kennewick, Wash.; 1900 4th Ave. S., Seattle; E. 4230 Trent, Spokane; and 2325 S. 1st St., Yakima, Wash.

ARIEL DAVIS MFG. CO., 3687 S. State St., Salt Lake City, Utah—Louis D. Black, 2220 Ocean View Ave., Los Angeles 57; A. L. Perdue, 4305 Raenswood Ave., Sacramento; Lee Hayes, 322 Wells St., Las Vegas, Nev.; Barney O. Hartley, P. O. Box 4381, Phoenix; L. V. Walker, 542 Thornton Ave., San Francisco; L. S. Reed, 1018 Lawrence St., Denver; Robert E. Davis, 1725 S. W. Wynwood, Portland 25; Evans Supply Co., 122 Social Hall Ave., Salt Lake City; Matt Cabot & Assoc., P. O. Box 3708, Honolulu, Hawaii.

ARK-LES SWITCH CORP., 51 Water St., Watertown, Mass. — Montgomery Brothers Inc. in following cities: 1122 Howard St., San Francisco; 4800 District Blvd., Los Angeles; 1632 N. W. Johnson St., Portland, and 911 Western Ave., Seattle 4; 5103 N. Hawthorne, Spokane.

ARMATURE COIL EQUIPMENT, INC., 2605 Vega Ave., Cleveland, Ohio—Insulation and Wires, Inc., 255 Loomis St., San Francisco; 6415 E. Fleet St., Los Angeles; 1112 N. W. 19th Ave., Portland.

ARMITE LABORATORIES, 6609 Broad St., Los Angeles, Calif.—Rutkin Electrical Sales, 744 Kohler St., Los Angeles.

ARRO EXPANSION BOLT CO., N. Boone Ave., Marion, Ohio—Regional Sales Co., 1719 Boulder, Denver; Tom G. Blunden, Bellevue, Wash.; George P. Wilcox Co., 4802 Loma Vista Ave., Los Angeles 58; E. James Smith & Co., 1485 Bayshore Blvd., San Francisco 24.

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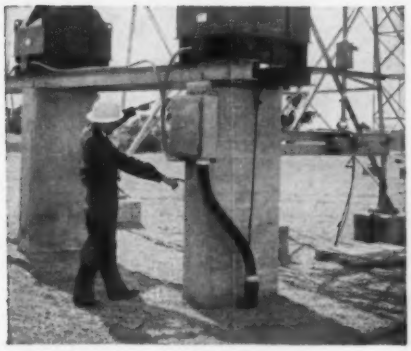
as a handy reference and guide. It is the only directory of Western sources for electrical products

Directory of Manufacturers
Where-to-Buy Products Directory
Directory of Representatives

FOR WET SPOTS



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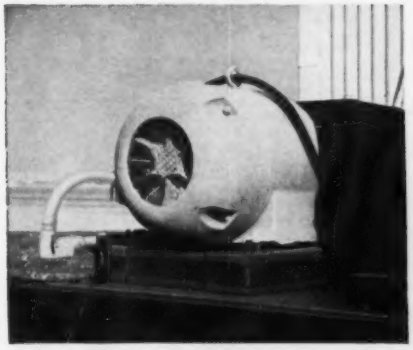
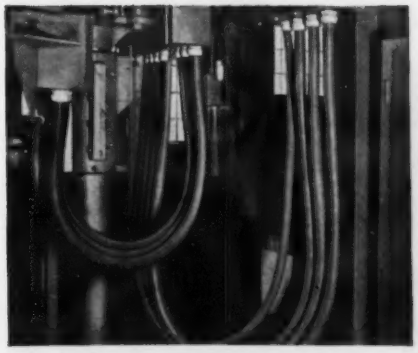


OUTDOORS



MOVING CONNECTIONS

ON THE ROUGHEST JOBS SEALTITE PROTECTS WIRING

SEALTITE is a flexible *and* liquid-tight electrical conduit. It gives maximum protection to your wiring when it must connect moving parts, absorb vibration, follow machine contours, flex into U-bends, be easily maintained or be safeguarded between misaligned outlets.

It is being used successfully in wet locations, in tunnels, power plants, steel mills, canneries, chemical industries and in many outdoor applications. Sealtite comes in four types:

TYPE U.A. — TYPE C.S.A. Specifications for Type U. A. (Underwriters' Laboratories Listed) and Type C. S. A. (Canadian Standards Association Approved). Construction: flexible galvanized steel core, positive ground and tough extruded outer cover.

TRADE SIZE (Ins.)	INSIDE DIAMETER Min.	INSIDE DIAMETER Max.	OUTSIDE DIAMETER Min.	OUTSIDE DIAMETER Max.	Appr. Inside Bend Diam. (Ins.)	Approx. Shipping Wgt. (Lbs.) Per Std. Carton
3/8	.484	.504	.690	.710	6	60
1/2	.622	.642	.820	.840	7	70
3/4	.820	.840	1.030	1.050	10	70
1	1.041	1.066	1.290	1.315	12	90
1 1/4	1.380	1.410	1.630	1.660	15	70

TYPE E. F. (Extra Flexible)—for machine tools and industrial equipment. (Meets J.I.C. requirements). Available in black, gray or white.

TYPE H. C. (Hot-Cold)—for temperatures from +221° F to −40° F.

TRADE SIZE (Ins.)	INSIDE DIAMETER Min.	INSIDE DIAMETER Max.	OUTSIDE DIAMETER Min.	OUTSIDE DIAMETER Max.	Appr. Inside Bend Diam. (Ins.)	Approx. Shipping Wgt. (Lbs.) Per Std. Carton
3/8	.485	.505	.690	.710	4	60
1/2	.620	.640	.820	.840	5	60
3/4	.815	.835	1.030	1.050	5	70
1	1.030	1.055	1.290	1.315	7	60
1 1/4	1.370	1.395	1.635	1.660	8	80
1 1/2	1.575	1.600	1.875	1.900	11	55
2	2.020	2.045	2.350	2.375	14	75
2 1/2	2.480	2.505	2.850	2.875	19	105
3	3.070	3.100	3.470	3.500	23	80
4	4.000	4.040	4.460	4.500	27	105

Commercial tolerances apply on above figures.

ELECTRICAL WHOLESALERS stock Sealtite. Buy it in long, random lengths on nonreturnable reels, at no extra cost. Available in sturdy cartons that are easy to store and carry to the job. Liquid-tight connectors also are available from wholesalers' stocks. For information write: Anaconda Metal Hose, Box 791, Waterbury 20, Connecticut. In Canada: Anaconda American Brass Ltd., New Toronto, Ontario.

59142GR-1-L

CUTAWAY SECTION of Type U.A. Sealtite shows tough polyvinyl chloride jacket over flexible galvanized steel core. Copper conductor wound spirally inside conduit gives positive ground.

(See listing sales offices page 6)

Insist on the conduit marked

SEALTITE®

Flexible, Liquid-Tight Conduit

an* ANACONDA® *product

The Baxter Co.

Representing

All-Steel Equipment Co. (RACO)
Clifton Conduit & Cable Co.
Collyer Insulated Wire Co.
Prudential Fluorescent Mfg. Corp.
Tennessee Plastics, Inc.
Pyramid Instrument Rattan Mfg. Co.
Revere Electric & Mfg. Co.
Slater Electric & Mfg. Co.
Sierra Transformer Co.
Superior Tape

***Servicing* Northern California, Nevada and Hawaii**

101 KANSAS ST.
SAN FRANCISCO 3,
MArket 1-8636

ARROLET CORP., Ft. of Bower St., Montgomery, Pa. —Smith-Thomas Co., 5417 E. Marginal Way, Seattle; Gordon Hooper, 4333 N. E. 54th St., Portland; Suchman Associates, 837 E. 4th Place, Los Angeles.

ARROW CONDUIT & FITTINGS CORP., 108-20 18th St., Jamaica 33, N. Y.—Suchman Associates, 837 East 4th Place, Los Angeles.

ARROW FASTENER CO., INC., 1 Junius St., Brooklyn, N.Y.—J. M. Davis Corp., 170 North Robertson Blvd., Beverly Hills, Calif.

ARROW-HART & HEGEMAN ELECTRIC CO., 103 Hawthorne St., Hartford, Conn.—Branch Offices: 120 S. Anderson, Los Angeles, and 277 Pennsylvania Ave., San Francisco 10; Everett T. Vonier Inc., 1160 Elati, Denver; H. A. Hebel, 1117 S.W. Westwood Court, Portland; H. L. Williams, 6335 Wilson Ave., Seattle; Eugene E. McElroy, 4489 Park Blvd., San Diego.

ARTCRAFT LIGHTING CO., INC., 248 McKibbin St., Brooklyn 6, N. Y.—James Mundstock, 417 Market St., San Francisco 11; Gregg Cloos, 977 Jackson St., Denver, Colo.; George Howard, Rt. 2, Box 2088, Bainbridge Island, Wash.; Tri-Western Agency, 1327 Major St., Salt Lake City; Hallek Sales Co., 4204 Palo Duro Dr., N. E., Albuquerque.

ART METAL CO., 1814 E. 40th St., Cleveland 3, Ohio —The Darger Co., 211 S. Second W. St., Salt Lake City; Heinz & Wells, Marina Mart Bldg., Seattle 9; William A. McGuire, 164 S. Central Ave., Los Angeles; John A. Schulter, 411 Weatherly Bldg., Portland; Chas. A. Blakely, 754 Natoma St., San Francisco; Roy Wendling Co., P. O. Box 3721, Phoenix.

ART SPECIALTY CO., 3720 N. Milwaukee Ave., Chicago, Ill.— Sales Associates, 11111½ S. La Cienga, Los Angeles; State Elec. Supply, 241 10 Street, Oakland; S. F. Lighting Co., 1147 Howard St., San Francisco; Incandescent Supply Co., 833 E. 3rd, Los Angeles, and 647 Mission St., San Francisco; Hollywood Elec. Supply Co., 6820 Romaine St., Los Angeles;l Fox Lamp & Fixture Co., 820 N. W. Glisan, Portland; Keuffel & Esser, 1327 S. Olive St., Los Angeles, and 30 Second St., San Francisco.

ARTOLIER CORP., 141 Lanza Ave., Garfield, N. J.— W. Keene Jackson, P. O. Box 413, Glendale, Calif.; Lester P. Fahey, 5035 W. Colfax, Denver; L. M. Baxter Co., 1238 N. W. Glisan, Portland 9.

ARVIN INDUSTRIES, INC., Big 4 R. R. & 13th St., Columbus, Ind.—Branch: D. E. Sanford, 1355 Market St., San Francisco; Floyd Yudelson, 3142 Wilshire, Los Angeles.

ASHEVILLE-SCHOONMAKER MICA CO., 900 Jefferson Ave., Newport News, Va.—Marwood Limited (in following cities), 357 Ninth St., San Francisco; 320 East Third St., Los Angeles; 1714 First Ave. So., Seattle 4; 209 South West First Ave., Portland.

ASSOCIATED CARBON PRODUCTS, INC., 207 W. Pico Blvd., Los Angeles, Calif.—Sold direct.

ASSOCIATED ENGINEERING CORP., Brookline, Mass. – Randolph Engineering Corp., 12202 E. Garvey Ave., El Monte, Calif.

ASSOCIATED MANUFACTURERS & DISTRIBUTORS CORP., 5015 S. E. Haig, Portland, Ore.—Amadco: Shaffer & Nelson, Inc., in following cities: 1001 S. E. Water, Portland, 1415 Main St., Salt Lake City, 312 Occidental, Seattle, and P. O. Box 198, Spokane; W. C. Osborn, P. O. Box 6506, Phoenix.

ASPLUNDH CHIPPER CO. (See Utilities Line Construction Co.)

ASSOCIATED RESEARCH, INC., 3758 W. Belmont Ave., Chicago 18, Ill.—California Instrument Co., 351 10th St., San Francisco; Brenner-Fiedler & Associates Inc., 7563 Melrose Ave., Los Angeles 46; Parrish Electronics, 2130 S. Albion, Denver.

ATKOMATIC VALVE CO., INC., 545 West Abbott St., Indianapolis, Ind.—Brenner-Fiedler & Assoc., 7563 Melrose Ave., Los Angeles 46; Fred G. Greaves Co., 418 Eighth Ave. N., Seattle, and 499 Concord Bldg., Portland; Claude B. Smith Co., 844 E. 12th St., Oakland; Rocket Components Co., 2950 S. Fox St., Englewood, Colo.

ATLANTIC CONDUIT FITTINGS CO., 450 Western Ave., Boston 34, Mass.—Frank H. Bran Co., 607 E. 6th St., Los Angeles; H. M. Denny Co., 3410 16th Ave. West, Seattle; Electrical Sales, 2445 Clement St., San Francisco.

ATLAS BRASS FOUNDRY, 1901 Santa Fe Ave., Los Angeles 21, Calif.—Bearing Specialty Co., 2424 Webster St., Oakland, and 128 Texas St., San Francisco; Industrial Specialties Co., 940 S. E. 7th Ave., Portland; Tinling & Powell, Inc., E. 706 Sprague Ave., Spokane; Colorado Ind. Supply Co., 1620 Wazee St., Denver; Pacific Northwest Industries, Inc., 4529 Airport Way, Seattle; George M. Philpott Co., 1060 Bryant St., San Francisco; 2928 Poplar St., Oakland, and 6260 Folsom Blvd., Sacramento; El Paso Machine & Steel Works Inc., 1600 E. 4th St., El Paso, Tex.; Motorman Supply Co., 1241 So. Hill St., Los Angeles.

ATLAS LIGHTING, 777 E. Rosecrans St., Los Angeles, Calif.

ATLAS SAFETY EQUIPMENT CO., INC., 173-9 N. 10th St., Brooklyn, N. Y.—Western Fire Equipment Co., 69 Main St., San Francisco; J. J. Lawton, 2517 11th Ave., Los Angeles 18.

ATOMICS INTERNATIONAL, Division of North American Aviation, Inc., Box 309, Canoga Park, Calif.

AURAND MFG. & EQUIPMENT CO., 1210 Ellis St., Cincinnati, Ohio—Bay Cities & Industrial Supply Co., Transport Bldg., San Francisco; T. H. Pitt Co., 371 11th St., San Francisco.

AUTH ELECTRIC CO., 34-20 45th St., Long Island City, N. Y.—Branch: 429 South Western Ave., Los Angeles; Lee D. Garnett, 2527 154th Ave., Bellevue, Wash.; David M. Merrill, 192 N. First East, Farmingdale, Utah; Barnard Eng. Co., 2800 Bay Road, Redwood City, Calif.; Jim Dawson Co., 661 Delaware St., Denver; Ra-Tone Electronics, 4518 N. 18th Dr., Phoenix.

AUTO HOT-STICK RENTALS, INC., 438 W. Laurel St., Compton, Calif.

AUTOMATIC CONTROL CO., 995 University Ave., St. Paul, Minn.—R. E. LeRiche, 422 Smith Tower, Seattle; Arnold Ambrosini, 420 Market St., San Francisco; Hundley Co., 3282 Fletcher Dr., Los Angeles; M. O. Cannon, P. O. Box 1134, Albuquerque; Wayne Wiscomb Co., Inc., P. O. Box 19, Sugarhouse Sta., Salt Lake City.

AUTOMATIC CONTROLS CORP., 2390 Winewood, Ann Arbor, Mich.—Earl E. Eckstrom, 2601 Second Ave., Eric F. Chemnitz, 1096 Yerba Buena Ave., Emeryville, Calif.

AUTOMATIC DEVICES, INC., P. O. Box 5, Adie Road, Maryland Heights, Mo. — Eugene E. Warrington, Western Dist. Mgr., 1258 Leyden St., Denver; Independent Lumber Co., 101 S. Spruce St., Grand Junction, Colo.; Montana Powder & Equip., 12 E. Lawrence, Helena, Mont.; Threewit-Cooper Cement Co., 2900 Walnut St., Denver; Arnold Machinery Co., 433 2nd South St., Salt Lake City.

AUTOMATIC ELECTRIC SALES CORP., Northlake, Ill.—Branch Offices: Automatic Electric Sales, 4415 W. Pico Blvd., Los Angeles 19; 1838 El Camino Real, Burlingame, Calif.

AUTOMATIC SAFETY CO., 848 Marcheta St., Altadena, Calif.—Smedley & Associates, 848 Marcehta St., Altadena, Calif.

AUTOMATIC SIGNAL DIV., Eastern Industries, Inc., Regent St., E. Norwalk, Conn.—W. E. DeYoung, Dist. Sales Mgr., 532 Veteran Ave., Los Angeles 24; Econolite Corp., 8900 Bellanca Ave., Los Angeles 45; 389 Clementina St., San Francisco 3, and Lloyd Bldg., 6th & Stewart St., Seattle; William Z. Harrison Co., 436 Atlas Bldg. Salt Lake City 1; Technical Service, 730 Haines Ave., N. W., Albuquerque, N. M.

AUTOMATIC SWITCH COMPANY, Florham Park, N. J.—Branch Office: 1233 Goodrich Blvd., Los Angeles 22; Clyde P. Elliott, 661 Delaware St., Denver; Standard Electric Sales, 1731 1st Ave. S., Seattle; Steel & Engineering Products, P. O. Box 3626, El Paso, and 1609 2nd St., N. W., Albuquerque; Paul S. Everly Company, 550 9th St., San Francisco; Barney Hartley, 708 W. Willetta, Phoenix.

AUTOMATIC TIMING & CONTROLS, INC., King of Prussia, Pa.—Representatives: Time-Trol, Inc., 5755 Van Nuys Blvd., Van Nuys, Calif. Distributor Calif. Wholesale Elec. Co., 2548 Yates Ave., Los Angeles 22; Pacific Scientific Co., 760 Harrison St., San Francisco, 1218 S.E. 7th Ave., Portland 6280 Chalet Dr., Bell Gardens, Calif., and 421 Michigan St., Seattle; A. J. Nelson Co., Box 1871 Salt Lake, Box 5502, Denver, Box 904, Billings Mont., and Box 938, Albuquerque; Arnold Ambrosini, 420 Market St., San Francisco.

AUTO-PONENTS, INC., 3001 Grant St., Bellwood, Ill.—Sold thru dealers and direct from factory.

AUTOTRON, INC., 3629 N. Vermillion St., Danville Ill.—Walter W. Corman, 7432 W. 80th St., Los Angeles 45; James M. Krotozyner, 544 Market St., San Francisco 4; C. B. Parsons & Co., 3028 First Ave., Seattle 1.

B-I-F INDUSTRIES, INC., 345 Harris Ave., Providence, R. I.—Branches: 5430 Jillson St., East Los Angeles 22, and 1766 Locust St., Walnut Creek, Calif.; The Instrument Lab., Inc., 934 Elliott Ave., W., Seattle 99, and 1316 S. E. 7th Ave., Portland 14; The Ambler Co., 401 W. Bayard, Denver 23; Western Ind. Sales Co., P. O. Box 6747, Denver; J. Henry Jones Co., P. O. Box 1795, Salt Lake City; Lefler Eng. Sales, 108 N. 23rd St., Billings, Mont.; Honolulu Iron Works Co., P. O. Box 3140, Honolulu 2, Hawaii.

B & M ELECTRIC CORP., 168 7th St., Brooklyn 15 N. Y.—Harris-Koatke Sales Co., 204 E. Hillsdale Blvd., San Mateo, Calif.; R. L. Stone Sales Co. 9015 Wilshire Blvd., Beverly Hills, Calif.; Paramount Agencies, North 12 Lee St., Spokane 24 Wash.

BABCOCK & WILCOX CO., 161 E. 42nd St., New York 17, N. Y.—Western Sales Offices: 1111 Wilshire Blvd., Los Angeles 17; 450 Mission St., San Francisco; 1700 Broadway, Denver 2; Luhrs Bldg., Phoenix; Norton Bldg., Seattle; Failing Bldg., Portland 4; P. O. Box 2990, Honolulu 2, Hawaii.

BAHNSON COMPANY, THE, Winston Salem, N. C.— J. E. Edstrom, 1224 S. W. Morrison, Portland; General Combustion Equip. Co., 67 Beale St., San

Francisco 5; Air Equip. Sales Co., 3020 Glendale Blvd., Los Angeles 39; Reliable Equip. Co., 1515 E. San Antonio St., El Paso; CBA Co., 1480 Hoyt St., Denver.

BAILEY METER CO., 1050 Ivanhoe Rd., Cleveland, Ohio—Branch Offices: 55 New Montgomery St., San Francisco; 816 S. Atlantic Blvd., Monterey Park, Calif.; 1506 Kearney St., Denver; 200 Broadway, Seattle; 2370 Parley's Circle, Salt Lake City, and 2227 N. E. 142nd Place, Portland.

BAKELITE CO. (See Union Carbide Plastics Co.)

BAKER-BARKON COMPANY, 1335 S. W. Morrison St. Portland, Ore.

BAKER-RAULANG CO., (See Baker Industrial Trucks.)

BAKER INDUSTRIAL TRUCKS, Div. of OTIS Elevator Co., 8000 Baker Ave., Cleveland, Ohio—Elder & Co., 333 7th St., San Francisco 3 and 2496 S. Railroad Ave., Fresno; Green-Benny Co., 4180 East Noakes St., Los Angeles 23; Charles Industrial Sales Co., 5201 First Ave. S., Seattle 8; Mechanical Equipment Co., 1718 W. McKinley St., Phoenix; Branch: 5320 S. E. 26th Ave., Portland 2.

BALDOR ELECTRIC CO. 4353 Duncan Ave., St. Louis, Mo.—E. P. Denham Co., 293 26th St., Oakland 12; R. S. Boreham Co., 1206 So. Maple Ave., Los Angeles; H. C. Miller, 4546 N. E. Alberts St., Portland; E. L. Parsons Co., 600 16th St., Oakland 12; Merrill F. Ogden Associates, 12240 6th Ave., N. W., Seattle 77.

BALDWIN-LIMA-HAMILTON, Industrial Equipment Div., Philadelphia 42, Pa.—Pelton Division, 2929 Nineteenth St., San Francisco 10. Branches in Los Angeles, Portland, Seattle, Denver and Salt Lake City.

BARBER-COLMAN CO., 1300 Rock St., Rockford, Ill. —Branch Offices: 2311 Kettner Blvd., San Diego; 1210 S. E. 7th Ave., Portland 14; Merrill N. Musgrave Co., 2019 Third Ave., Seattle 1, and 215 Hutton Bldg., Spokane; E. B. Bomer, 914 W. Madison St., Phoenix; Automatic Control & Equip. Co., 5753 Pecos St., Denver 11; Control & Equip. Co., 5106 Grand Ave., N. E., Albuquerque; Paul E. Benton Co., 220 West Third South, Salt Lake City; G. J. Yamas Co., 667 Howard St., San Francisco 5, 1621 E. Belmont, Fresno, and 3730 Broadway, Sacramento 17; Sun Supply Co., 708 S. Main, Las Vegas, Nev.; Air Equip. Co., 1607 Second St., Albuquerque; Mensdorfer & Assoc., 8468 Melrose Pl., Los Angeles.

BARBER-COLMAN CO., Wheelco Instruments Div., Rockford, Ill.—E. B. Bomar Sales, Inc., 914 W. Madison St., Phoenix, Ariz.; 190 E. Glenarm St., Pasadena, Calif.; Jay Perrin Co., 1515 E. 19th St., Bakersfield; G. J. Yamas Co., 1621 E. Belmont, Fresno; G. J. Yamas Co., 3730 Broadway, Sacramento, 2311 Kettner Blvd., San Diego, and 667 Howard St., San Francisco; Automatic Control & Equipment Co., 5750 Pecos St., Denver, Colo.; Sun Supply Co., 708 S. Main St., Las Vegas, Nev.; Control & Equipment Co., 5106 Second St., Albuquerque, N. M.; Paul E. Benton Co., 220 W. 3rd South, Salt Lake City; M. N. Musgrave Co., 2019 Third Ave., Seattle, and 215 Hutton Bldg., Spokane, Wash.

BARBER-GREENE CO., 400 N. Highland, Aurora, Ill. —Branch Offices in South San Francisco, Bellevue, Wash., and Denver.

BARCALO MFG CO., 225 Louisiana St., Buffalo, N. Y.—John W. Archibald, 1863 Wazee St., Denver 2; Wright & King, 323 E. Washington Blvd., Los Angeles 15; Maury S. Mittleman & Assoc., 674th S. Lafayette Park Pl., Los Angeles 57.

BARKELEW ELECTRIC MFG. CO., 1905 Columbia Ave., Middletown, Ohio—Electrical Specialty Co., in following cities: 158 11th St., San Francisco; 2406 First Ave. So., Seattle, and 2026 Arapahoe, Denver. Angus-Campbell, Inc., 4417 S. Soto Street, Los Angeles, and P. O. Box 232, Phoenix.

BARKSDALE VALVES, Pressure Switch Div., 5125 Alcoa Ave., Los Angeles, Calif.—Branch Offices: 5125 Alcoa Ave., Los Angeles, and Room 209, Executive Aircraft Terminal, S. F. International Airport, San Francisco; Cone & Wallace, 1325 S. 26th St., Phoenix; Bailey Equip. Co., 3856 California St., San Diego; Tower Equip. Co., P. O. Box 158, Mercer Island, Wash.; Industrial Materials Inc., 2855 Walnut St., Denver; Process Equip. Co., 2458 W. 29th Ave., Denver, and 138 South Second East, Salt Lake City.

BAR-MOTIVE PRODUCTS, INC., 440 Peralta, San Leandro, Calif.

BARRON BETHEA CO., INC.—Maydwell & Hartzell, Inc., in following cities: 870 Tennessee St., San Francisco 7, 427 W. 5th St., Los Angeles 13, 5823 Henley Dr., San Diego, 120 S. 29th St., Phoenix, 2318 N. W. Vaughn St., Portland 10, 803 W. Jackson, Medford, 306 Dexter Ave., Seattle 9, 121 S. Monroe St., Spokane 8, 110 East 6th St., Tucson, Arizona.

BARRY CONTROLS, INCORPORATED, 700 Pleasant St., Watertown 72, Mass.—Barry Controls Inc., West Div., 2821 N. Naomi St., Burbank, Calif.

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BARTH CORPORATION, THE, 12650 Brookpart Rd., Cleveland, Ohio—Ed B. Schack & Co., 2218 First Ave., Seattle 1; W. B. Imholt Co., 275 Brannan St., San Francisco; Western Tool Distributors, 441 South Towne Ave., Los Angeles.

BARTLETT MANUFACTURING CO., 3053 E. Grand Blvd., Detroit 2, Mich. — Hughson & Merton in following cities: 3209 Glendale Blvd., Los Angeles 39, 1270 Bush St., San Francisco 9, 910-B Elliott Ave. W., Seattle 99, and 412 Crandall Bldg., Salt Lake City 1. (See ad, p. 9)

BARTON INSTRUMENT CORP., Monterey Park, Calif. —Bellilove Co., 420 Market St., San Francisco.

BASHLIN COMPANY, W. M., W. Pine Street, Grove City, Penna.—Guardian Safety Equipment Co., 7223 So. Main St., Los Angeles; Sanderson Safety Supply Co., 1423 S. E. Hawthorne Blvd., Portland; Universal Safety & Fire Equip. Co., Inc., 727 So. West Temple, Salt Lake City; M. B. Houghton Co., 2020 Grand Ave., Phoenix; Tucson Electric Supply Co., 523 E. Tenth St., Tucson; H. C. Guire & Co., 715 S. York, Denver 9; Jack Pruzan Co., 109 Jackson St., Seattle 4; Pole-Line Distributing Co., 405 West 13th South, Salt Lake City; Western Hardware & Tool Co., 122 Tenth St., San Francisco.

BATAVIA METAL PRODUCTS CORP., 1252 Liberty St., Batavia, N. Y.—Utility Body Co., 1530 Wood St., Oakland, Calif.; Truck Equipment Co., 3963 St., Oakland, Calif.; Truco Denver, 3963 Walnut St., Denver, Colo.

BAXCO CORP., 541 Pittock Block, Portland 5, Ore.

BAXTER CO., J. H., 120 Montgomery St., San Francisco 4, Calif.—Branch Offices: Portland, 541 Pittock Block; Renton, Wash., P. O. Box 568, and Los Angeles, Calif., 3450 Wilshire Blvd.

BAYLEY BLOWER CO., 1817 S. 66th St., Milwaukee, Wis.—Hess Greiner and Polland, 3440 Sunset Blvd., Los Angeles 15, and 1485 Bayshore Blvd., San Francisco; Tennity & Co., 1300 W. 8th St., Los Angeles.

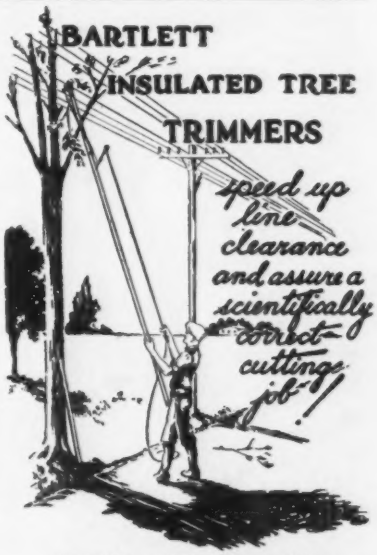
BEAVER PIPE TOOLS, INC., 310 Dana St., N. E., Warren, Ohio—Mr. Al Newell, 8101 Variel Ave., Canoga Park, Calif.; Charles A. Davis, 3201 S. Albion St., Denver 8.

BECKETT-HARCUM CO., 1087 Wayne Road, Wilmington, Ohio—Airdreco Corp., 2863 Telegraph Road, Los Angeles 22; H. E. Linney Co., 5801 College Ave., Oakland 8, Calif.; H. F. Soderling Co., 1729 First Ave. So., Seattle.

BECKMAN SCIENTIFIC AND PROCESS INSTRUMENTS DIV., 2500 Fullerton Road, Fullerton, Calif. Branch offices: 2200 Wright Ave., Richmond, Calif., and 10609 N.E. 18th St., Bellevue, Wash.

BEEDE ELECTRICAL INSTRUMENT CO., INC., Penacook, N. H.—Lebell-Warren Associates, 1485 Bayshore Blvd., and Los Angeles; Allen I. Williams 2263 S. Albion St., Denver 22.

BELDEN MFG. COMPANY, 415 S. Kilpatrick, Chicago Ill.—J. Reed, 13465 Margate, Van Nuys, Calif. Harold W. Hofman (Dist. Mgr.) Box 2922, Terminal Annex, Los Angeles; R. E. Greenwood, 220 E Rosa Ave., La Habra, Calif.; Sam Abernethy 11030 S.E. 27th Place, Bellevue, Wash.; Jim Manfrin, 1573 Risdon Road, Concord, Calif.; Fibre Metal Pacific Inc., 7332 S. Garfield Ave., Bell Gardens, Calif.; Electric Motor Supply, 1646 Blake St., Denver; Motorman Supply, 1241 So. Hill St., Los Angeles.



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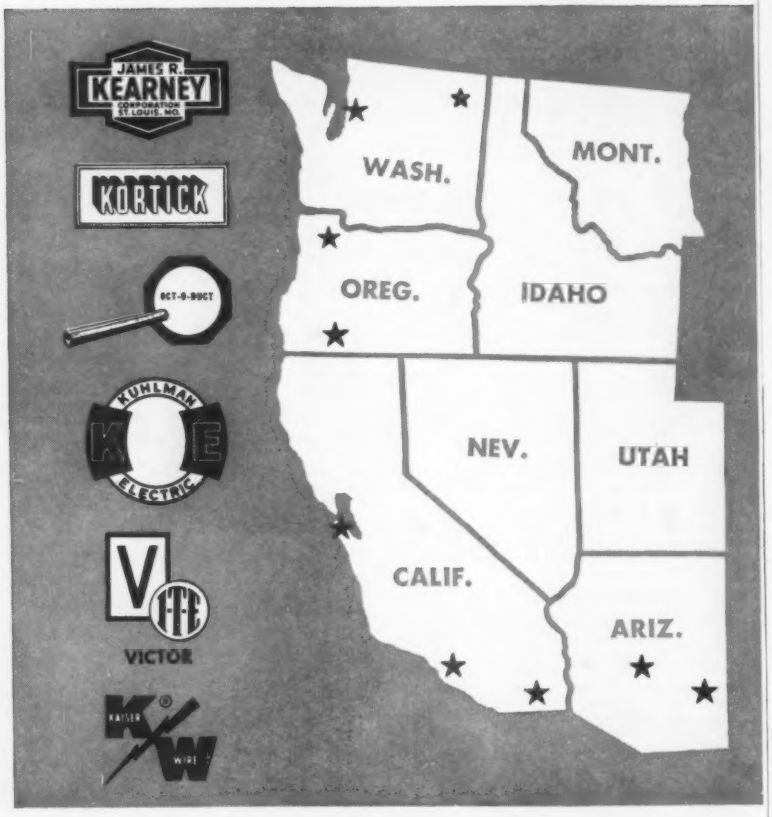

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Spokane 8	121 S. Monroe Street	MAdison	4-3285
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BELL ELECTRIC COMPANY, 5735 South Claremont Ave., Chicago 36, Ill.—J. H. Kay, 713 E. Third, Los Angeles 13; A. J. Nelson Co., 710 E. Louisiana, Denver; Fissell Kossnar Sales, 5309 E. Verde Lane, Phoenix; Pacific Elec. Sales, 140 S. E. 28th Ave., Portland; Garrison & Co., Builders Exchange, 850 So. Van Ness, San Francisco 10.

BENJAMIN DIV., THOMAS INDUSTRIES, INC., Sub. of Thomas Industries, Inc., Des Plaines, Ill.—North Pacific Division: O. C. Westberg, Sales Manager, 1299 Bayshore Highway, Burlingame; D. D. Moore, 1661 Claremont Dr., San Bruno, Calif.; H. R. Huber, 1420 W. Lake Sammamish Parkway, N. E., Bellevue, Wash.; R. Patrick, 4027 N. Elgin, Spokane, Wash.; D. Watson, 4719 Pasadena, Sacramento 21, Calif.; Colin M. Kosack, 1136 Hamilton Lane, Burlingame, Calif.; Baxter Sharp, 1068 Cynthia Lane, San Jose, Calif.; Gary Lydum, P. O. Box 3451, Portland; Southern Pacific Division: A. O. Grotenhuis, Sales Manager, 6423 E. Washington Blvd., Los Angeles 22; Rollo D. Hittle, 16408 Septo St., Sepulveda, Calif.; R. W. Huizinga, 5142 Caywood, San Diego 17; R. R. Jones, 3745 Mayfair Dr., Pasadena; J. D. Long, 615 Jasmine Ave., Corona del Mar, Calif. H. P. Christensen, Dist. Sales Mgr., 812 E. Harmony Lane, Fullerton, Calif.; C. J. Stuart, Sales-Service, Thomas Industries, Inc., 6423 E. Washington Blvd., Los Angeles 22, Calif.

BENJAMIN REEL PRODUCTS, INC., 10700 Broadway, Cleveland 25, Ohio—J. H. McGregor (GMG Sales) 2315 S. Campbell, Alhambra, Calif.; H. E. Gillson (GMG Sales), 4680 Alpine Rd., Portola Valley, Calif.; Roy E. Ryberg & Assoc., 2522 35th Ave W., Seattle 99; Michael & Frye, Inc., 3319 W 36th Ave., Denver 11.

BENT GLASS WORKS, INC., 85-127 126th St., Richmond Hill, N. Y.—R. E. Baum, 681 Market St., San Francisco.

BERKO ELECTRIC MFG. CORP., 182-20 Liberty Ave., Jamaica, N. Y.—Representatives: Robert Thallon, P. O. Box 937, Sta. A, San Mateo, Calif.; Walter Yund, 9623 40 N. E., Seattle; Kenneth B. Schumann, 1073 Galapago, Denver 4, and P. O. Box 6, Bountiful, Utah. Distributors: North Coast Mercantile, Eureka, Calif.; California Wholesale Electric, Los Angeles; Hollywood Wholesale Electric, and Supreme Wholesale Electric, Los Angeles; Graybar Electric, and Westinghouse Electric, Oakland, Calif.; Tri-County Electrical, Palm Springs and San Bernardino, Calif.; Valley Electric, Redding, Sacramento, and Stockton, Calif.; Coast Electric, San Diego, Calif.; Empire Supply, San Francisco and Visalia, Calif.; National Electric, and Phillips & Edwards, San Francisco; Frontier Electric, G. E. Supply Co., Rite Lite Supply Co., Ryall Elec. Supply Co. and Weiner Bros. Electric, Denver, Colo.; Livran Electric, Denver and Grand Junction, Colo.; American Electric, Pueblo, Colo.; Afton-Lemp Elec., Boise, Ida.; Electrical Contractors Supply, Idaho Falls and Pocatello, Idaho; Glacier State Electric, Great Falls and Billings, Mont.; Monitor Distributors, Butte, Mont.; Hub Electric, Missoula, Mont.; Kitchen Electric Supply, and Western Electrical, Reno, Nev.; Electric Supply, J. Korber & Co., State Electric, Westinghouse Electric, and G. E. Supply Co., Albuquerque, N. M.; Portland Electric & Plumbing, Portland; Robert Electric, Orem; Eastern Utah Electric, Price, Utah; Graybar Electric, United Electric, and G. E. Supply Co., Pole-Line Distr., Salt Lake City; Bellingham Supply, Bellingham, Wash.; Bean Electric, Everett, Seattle, and Wenatchee, Wash.; Columbia Electric, Graybar Electric, and Palmer Electric, Seattle, Wash.; Stusser Electric, Seattle and Yakima, Wash.; Columbia Electric Mfg., and Inland Electric, Spokane, Wash.; Home Electric, Tacoma, Wash.**

BERTRAM CO., The Harvey P., 2225 Bogen, Cincinnati, Ohio—North-Munsen, 535 S. 2nd West St., Salt Lake City; Sanford Mechanical Equip. Co., 5658 College Ave., Oakland, Calif., 8520-C Florence Ave., Downey, 2849 Fulton Ave., Sacramento, 8316 Lake Ben Dr., San Diego, and 2334 Stevens Creek Rd., San Jose.

BETHLEHEM STEEL CO., Pacific Coast Div., 100 California St., San Francisco, Calif.—Sales Offices: San Francisco, Los Angeles, Seattle, Portland, Spokane, Phoenix, and Salt Lake City.

BETHEA CO. INC., P. O. Box 1407, Birmingham, Ala.—Maydwell & Hartzell, Inc., in following cities: 870 Tennessee St., San Francisco 7; 427 W. 5th St., Los Angeles 13; 120 So. 29th St., Phoenix; 2318 N. W. Vaughn St., Portland 10; 306 Dexter Ave., Seattle 9; 121 S. Monroe St., Spokane; 803 W. Jackson, Medford, Ore.; 5823 Henley Dr., San Diego, Calif., and 110 East 6th St., Tucson.

BIDDLE CO., JAMES G., 1316 Arch St., Philadelphia, Pa.—Branch Office: Los Angeles, Calif.; Adolph F. Zell, 12092 Foster Rd., Los Alamitos, Calif.; Instrument Laboratory, Inc., 934 Elliott Ave. West, Seattle; Nourse Equipment Co., 2300 4th St., Berkeley; J. E. Redmond Supply, 625 W. Madison, Phoenix.

BIGGS CO. INC., CARL H., 1547 14th St., Santa Monica, Calif.

BIDDLE TRADE PUBLISHING CO., 2720 Beverly Blvd., Los Angeles 57 Calif.—Sales Representatives: S. V. Weiner, 604 California Theatre Bldg., San Diego 1; Wm. A. Cyr, 876 Hilldale Ave., Berkeley 8, Calif.; A. T. Hutchinson, 1245 Bigelow Ave., N., Seattle 9, Wash. (See ad, p. 13)

BIN-DICATOR CO., 13946 Kercheval Ave., Detroit 15, Mich.—George L. Edmondson, 1455 Custer Ave., San Francisco 24; C. H. Spencer Co., 210 W. 33rd So., Salt Lake City 10.

BINGHAMTON FLEXIBLE SHAFT DIV., SWARTZ & WHITE MFG. CO., 486 Chenango, Binghamton, New York—A. J. Glessner Co., 975 Bryant St., San Francisco; Hickinbotham Bros. Ltd., 536 S. Aurora St., Stockton, Calif.; Pacific Hdwe. & Steel Co., Inc., 1344 The Alameda, San Jose, Calif.

BISHOP MANUFACTURING CORP., 10 Canfield Road, Cedar Grove, N. J.—Jack Pruzan Co., 1963 First Ave. South, Seattle 4; Industrial Eng. & Equipment Corp., 2975 Wilshire Blvd., Los Angeles 13; Wrathall & Krusi, 1044 Monadnock Bldg., San Francisco 5; C. D. Belt, 2149 S. Clermont St., Denver 22; Graybar Electric Co., in all principal cities.

BLACK & DECKER MFG. CO., Towson 4, Md.—Branch Offices: 1010 Bannock St., Denver 4; 2432 So. Broadway, Los Angeles 7; 4343 Third St., San Francisco 24; 434 8th Ave., N., Seattle; 1640 N. W. Johnson St., Portland 9; 900 S. Main St., Salt Lake City; N. 2706 Hemlock St., Spokane 12, and 1506 Grand Ave., Phoenix.

BLACK LIGHT CORP. OF AMERICA, 5114 Walnut Grove Ave., San Gabriel, Calif.

BLACK & WEBSTER, INC., 570 Pleasant, Watertown, Mass.—Hundley Co., 3282 Fletcher Dr., Los Angeles; Harry M. Smith & Assoc., 1341 Old County Rd., Belmont, Calif.; Joseph F. Taraba Co., 1824 S. E. 50th Ave., Portland; F. A. Pease Co., 4921 E. 39th Ave., Denver.

BLACKBURN CORP., JASPER, 1525 Woodson Road, St. Louis 6, Mo.—Donald E. Ingalls, 1485 Bayshore Blvd., San Francisco 24; Robert M. Schow & Co., 926 S. Atlantic Blvd., Los Angeles 22; William A. Herning, 902 Friedel Ave., Vancouver, Wash.; W. C. Osborn, 7116 N. 13th St., Phoenix; Sales Engineers, 211 Wazee Market, Denver 4; James D. Stephens, 49 N. Second West, Salt Lake City; Ralph B. Black, 1025 Hermosa Drive, S. E., Albuquerque. (See ads, pp. 89, 93)

BLACKHAWK INDUSTRIES, 250 S. Main, Dubuque, Iowa—Pacific Electric Sales Co., 140 S. E. 28th Ave., Portland 15, Ore.; G. J. Pomeroy, 1004 E. 14th St., Los Angeles 13; W. B. Imholt Co., 275 Brannan St., San Francisco.

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BLAKEMAN BROS. ELECTRICAL MFG. CO., 5859 Compton Ave., Los Angeles 1, Calif.—Pacific Electric Sales Co., 140 S. E. 28th Ave., Portland 15; Fred M. Nicholas Co., 72 Townsend St., San Francisco 7.

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BLUE M ELECTRIC CO., 138th and Chatham St., Blue Island, Ill.—Branch office: 2312 S. Main St., Los Angeles 7.

BODENIECK TOOL CO., Route 48 North Taylorville, Ill.—H. M. Denny, 111 W. Harrison, Seattle; John H. Ormond, 600 16th St., Oakland; Potter-Bowman Co., 213 North First Ave., Phoenix; R & M Sales, 2214 S. Clayton, Denver; Best Linemen's Supply Co., 541 First Ave. So., Seattle.

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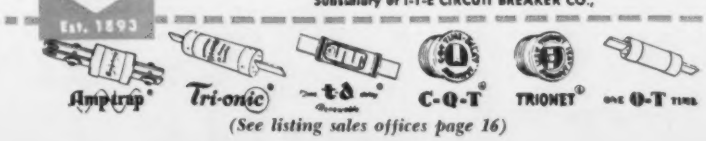

(See listing sales offices page 16)

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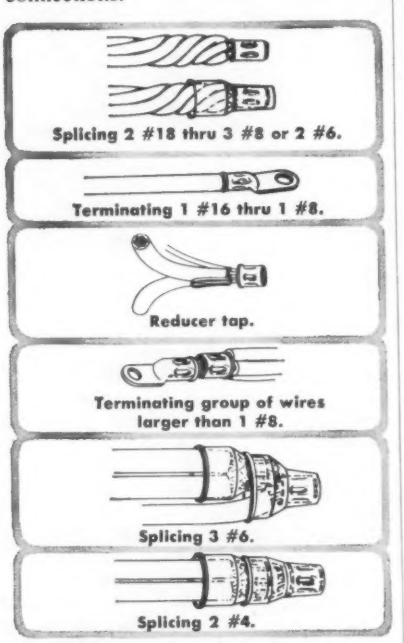

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BULLARD CO., E. D., 2680 Bridgeway, Sausalito, Calif.—Branch Office: 6719 S. Figueroa St., Los Angeles. Spokane Safety Appliance, N. 219 Division, Spokane; Safety & Supply Co., 115 Blanchard St., Seattle; Sanderson Safety Supply Co., 816 S. E. Hawthorne Blvd., Portland; Intermountain Equipment Co., P. O. Box 1129, Boise; Goodall Rubber Co., 4861 E. 38th Ave., Denver, and ply Co., 2950 W. Thomas Rd., Phoenix; Midwest Rubber & Supply Co. of Ariz., 327 E. Jefferson, Phoenix; Central New Mexico Equip Co., 3712 Edith Blvd., N. E., Albuquerque, N. M.; Bashaw Equipment Co., 5th Ave. at Merrill Field, Anchorage, Alaska; Gaspro, Ltd., P. O. Box 2454, Honolulu 4, Hawaii.

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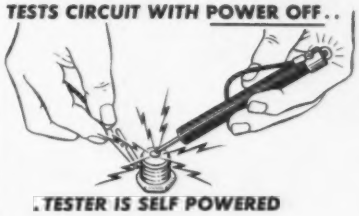

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C & D BATTERIES, INC., Conshohocken, Pa.—McCormick Morgan Co., 324 Fifth St., San Francisco; Frank T. Butler, 722 Fern Glen, La Jolla, Calif.; Toncray Equipment Co., 732 Blake St., Denver, 213 N. First Ave., Phoenix, and 1347 S. 17th East, Salt Lake City; Automotive Elec. Co., 125 E. Mission, Spokane; Joseph C. Platt Co., 111 Bell St., Seattle; Fred Pelletier Co., 3436 San Fernando Rd., Los Angeles.

CABLE ELECTRIC PRODUCTS, INC., 234 Daboll St., Providence, R. I.—The Frank H. Bran Company, 607 E. 6th St., Los Angeles; Vic Paul Co., 510 N. W. Hoyt St., Portland 9; Allen B. Carpenter Co., 1314 Wazee St., Denver 4; Jack T. Casey, 1485 Bayshore Blvd., San Francisco; Andre-Mann Co., P. O. Box 2187, Anchorage, Alaska.

CABLE SPINNING EQUIPMENT CO., 3100 Topeka Ave., Topeka, Kansas—Sold by the following sales outlets in all principal cities: Maydwell & Hartzell, Inc.; Leich Sales Corp.; Stromberg-Carlson; Kellogg Switchboard & Supply, Automatic Electric Sales; North Electric Co. and General Electric Supply Co.; R & M Sales, 2214 S. Clayton, Denver 10.

CADWELD PROCESS (See Erico Products.)

CALIFORNIA CONDUIT & CABLE CO., 2204 Orange St., Alhambra, Calif.—Hodges & Glomb, 921 Bryant St., San Francisco; Keeler White Co., 523 N. W. Everett, Portland; Payne & Sloan, Inc., 1101 E. 5th St., Los Angeles.

CALINOY DIVISION of Illinois Tool Works, 3155 W. El Segundo Blvd., Hawthorne, Calif.—James Findlay Co., P. O. Box 717, Bellevue, Wash.; Miner and Assoc., Inc., 115 Main St., El Segundo, Calif.

CALIFORNIA CROSSARM CO. (See Pacific Crossarm), Los Angeles 39, Calif.—Matzginer-Johnson Co., 1329 Willow St., Los Angeles 13.

CALAVAR CORP., 2700 S. Broadway, Los Angeles 7, Calif.

CAL-VENT MFG. CO., 1032 S. Gerhart Ave., Los Angeles 22, Calif.—Suchman Associates, 837 East 4th Place, Los Angeles 13.

CALVERT CO.—Oliver B. Lyman, 55 New Montgomery St.; Randolph Engineering Corp., 12202 East Garvey Ave., El Monte, Calif.

CALWIRE, 326 N.W. Third Ave., Visalia, Calif.—George A. Gray Co., 2720 17th St., San Francisco 10.

CAM-LOK DIV., EMPIRE PRODUCTS, INC., 9201 Blue Ash Road, Cincinnati 36, Ohio—J. B. Nottingham & Co., 1965 Pacific Ave., Long Beach Calif.; R. C. Fessler & Co., 1674 Colorado Blvd., Los Angeles 41.

CAM-STAT INC., Div. of the Paul Henry Co., W Olympic & Burndy Blvd., Los Angeles 64, Calif.—H. D. Campbell Co., 220 9th North, Seattle.

CAM TOOL CO., INC., 1038 Larkin St., San Francisco, Calif.—George Teetzel Co., 1724 S. Flower, Los Angeles; R. K. Flanagan, 1631 16th St., Seattle; H. P. Moran, 3871 Piedmont, Oakland; Achel West, 1123 E. Oregon, Phoenix; E. L. Michael, 2340 S. Milwaukee, Denver.

CAMBER LIGHTING, INC., 37 Montgomery St., Jersey City, N. J.—Jack Finkelstem 546 W. Encanto Blvd., Phoenix, Ariz.; Al C. Slater & Assoc., 9011 15th Ave. N. E., Seattle; Bill Sylvester, 2144 Welton St., Denver.

CANNON ELECTRIC CO., 3208 Humboldt St., Los Angeles 31, Calif.—Branch Offices: 1845 S. Manchester Ave., Anaheim, Calif., 666 E. Dyer Rd., Santa Ana, and 2801 Airlane, Phoenix; Wm. V. Brainard, 715 Hamilton, Palo Alto, Calif.; James J. Backer Co., 221 W. Galer St., Seattle 99; Allen I. Williams Co., 2263 S. Albion St., Denver 22, and 320 E. 4th So., Salt Lake City; Dougherty Enterprises, 149 Kaimi St., Kailua, Hawaii.

CAPEWELL MFG. CO., 60 Governor St., Hartford 2, Conn.—Rueger Co., 1335 So. Hill, Los Angeles, and 889 Bryant St., San Francisco; 516 Henry Bldg., Portland, and P. O. Box 4033, Magnolia Sta., Seattle.

CARBON ENGINEERING CORP., 400 Railroad, Slinger, Wis.—Representative: James Krotozyner, 544 Market St., San Francisco. Distributors: L. L. Burror Co., 1126 8th Ave., Oakland 6; Arrowhead Electric Corp., 5979 S. Figueroa St., Los Angeles 3; Reliable Electric Co., 802 W. Jefferson St., Phoenix; Tinling & Powell, E. 706 Sprague Ave., Spokane; Electric Motor Co., 707 Commerce St., Tacoma.

CARBONE CORPORATION, 400 Myrtle Ave., Boonton, N. J.—E. C. Brehm, 2312 Carquinez Ave., El Cerrito, Calif.; W. E. Ferris, 422 W. Roses Road San Gabriel, Calif.; D. E. Johnson, 3139 S. W Altadena Terrace, Portland; E. A. Wilcox Co., 277 Seventh St., Los Angeles.

CARBORUNDUM CO. OF REFRACTORIES DIV., Latrobe, Pa.—Eichorn & Melchior, 932 Terminal Way, San Carlos, Calif.; L. F. Davies, 2626 Malt Ave., Los Angeles 22; W. B. Franck, 1510 Hillgrade Ave., Walnut Creek, Calif.

CARLING ELECTRIC, 500 New Park Ave., West Hartford, Conn.—Fisher-Switches, 40 Gough St., San Francisco.

CARLON PRODUCTS CORP.—250 E. Manville St., Compton, Calif.—Branch Offices: 1860 S. Acoma Denver; 1516 Thurman N.W., Portland; 1905 E Roma, Phoenix; 10 Mississippi, San Francisco.

CARNEY & CO., B. J., Peyton Bldg., Spokane 1, Wash.—Maydwell & Hartzell, Inc., in following cities: 870 Tennessee St., San Francisco 7, 427 W. 5th St., Los Angeles 13, 5823 Henley Dr., San Diego, 120 S. 29th St., Phoenix, 2318 N. W. Vaughn St., Portland 10, 803 W. Jackson, Medford, 306 Dexter Ave., Seattle 9, 121 S. Monroe St., Spokane 8, 110 East 6th St., Tucson.

CAROL CABLE CO., 190 Middle St., Pawtucket, R. I. —Bruce-Emmett Co., 830 S.E. Alder St., Portland, 1016 First Ave. S., Seattle, and 12103 East Boone St., Spokane; Payne & Sloan, Inc., 1101 East 5th St., Los Angeles 13; F. M. Nicholas Co., 72 Townsend St., San Francisco 7.

CARPENTER-PETERSON, INC., 18 Hurley, Cambridge, Mass.—Gil Moore & Co., 1001 Tennessee St., San Francisco.

CARPENTER STEEL CO., Alloy Tube Div., Springfield Road Union, N. —.—Branch Office: 2304 Huntington Dr., San Marino, Calif. Distributors: Electric Steel Foundry Co., 2141 N.W. 25th Ave., Portland 10; 2724 1st Ave. So., Seattle 4; 1280 65th St., Emeryville, Calif.; 4600 Pacific Blvd., Los Angeles 11.

CARRIER CORPORATION, Carrier Parkway, Syracuse 1, N. Y.—Branch Offices: 900 Tennessee St., San Francisco; 5330 Harbor St., Los Angeles; 660 Bannock St., Denver; 3424 N. Central Ave., Phoenix; S. E. Grand at Morrison, Portland 4.

CASH VALVE MFG. CORP., A. W., 666 E. Wabash, Decatur, Ill.—T. F. Watson & Assoc., 2240 Wood St., Oakland 7; James A. Riordan Co., 1400 Santa Fe Ave., Los Angeles; Sales Engineers, Ltd., 7919 Monroe St., Paramount, Calif.; G. Robert Parker

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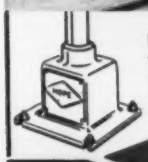

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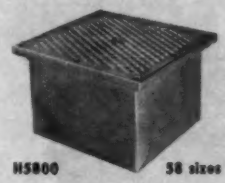

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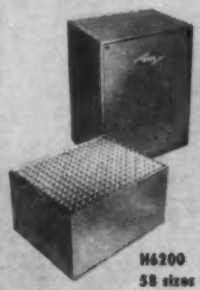

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FLAT FLANGED COVER WITH WIDE GASKET

H2200 134 sizes

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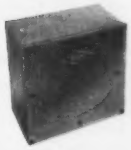

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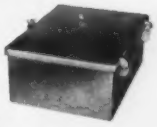

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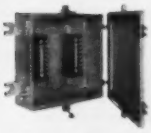

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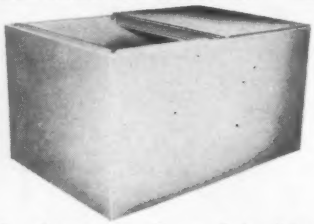

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Co., 1458 Pennsylvania St., Denver; Chester L. Duke, 3317 N. 31st St., Tacoma 7; Wayne S. Janes & Associates 510 Builders Exchange Bldg., Portland 4.

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CECO STEEL PRODUCTS CORP., 5601 W. 26th St., Chicago, Ill.—Branch: 401 Tunnel Ave., San Francisco; 1450 Mirasol, Los Angeles; 6121 Clermont St., Denver 16.

CEILHEAT, INC., 5212 Homberg Drive, Knoxville, Tenn.—Ernst F. Hauch Co., 735 Tehama St., San Francisco; Page E. Golsan, 301 Pasadena Ave., Los Angeles; Ben T. Clark, 211-212 Wazee Market, Denver; Ray E. Wendling, 1009 N. 3rd Ave., Phoenix; W. H. Veberheim, 140 S.E. 28th Ave., Portland.

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CENTRAL AUTOMATIC SPRINKLER CO., Fourth and Cannon Ave., Lansdale, Pa.—Herman Lawson Co., 465 Tehama St., San Francisco; Rautman Plumbing & Heating Co., 115 Jackson St., Seattle 4; Lent's, Inc., 270 Fourth St., Bremerton, Wash.; M. B. Hinds, 2605 S. W. Third Ave., Portland; Orvin Eng. Co., La Habra, Calif.; Jardine-Wardman Inc., Colorado Springs, Colo.; L. Z. Brown, 288 N. Vermont Ave., Los Angeles; D. A. Wise, 973 W. St. Andrews Pl., Los Angeles; Pangborn Plbg. & Htg. Co., 1135 E. Florence Ave., Inglewood, Calif.; Merit Plbg. & Htg., 10913 Venice Blvd., Los Angeles; Murray Co., Gardena, Calif.; Assoc. Auto Fire Protection Co., Bakersfield, Calif., C. W. Schmid, 231 W. Front St., Missoula, Mont.; Copper Plumbing & Heating Co., 1812 Fairview Ave. N., Seattle; Sager's, 4213 Rucker, Everett, Wash.

CENTRAL PORCELAIN CO., Railroad St., Columbiana, Ohio—Weingart & Lustig, 1567 E. 25th St., Los Angeles 11.

CENTRAL TRANSFORMER CORP., P. O. Box 1753, Pine Bluff, Ark.—Robert A. Young & Co., 3901 San Fernando Road, Glendale, Calif.; F. M. Nichols Co., 72 Townsend St., San Francisco; Shaffer & Nelson, 1001 S. E. Water Ave., Portland, 312 Occidental Ave., Seattle, and W. 1835 Broadway, Spokane; R & M Sales Co., 2214 So. Clayton St., Denver 10; McGillan Sales Co., P. O. Box 4013, Albuquerque; Gates Co., 822 Continental Bank Bldg., Salt Lake City.

CENTURY ELECTRIC CO., 1806 Pine St., St. Louis, Mo.—Branch Offices: 555 Monadnock Bldg., San Francisco; 1855 Industrial St., Los Angeles; 3420 E. Marginal Way, Seattle 4; 1238 N. W. Glisan, Portland 9; East 800 Front Ave., Spokane 2; Agents: Mark G. Mueller, 1644 Blake St., Denver 2; J. E. Redmond Supply, 625 W. Madison Ave., Phoenix; Stevens Sales Co., 1476 Major St., Salt Lake City 14.

CENTURY LIGHTING, INC., 521 W. 43rd St., New York, N. Y. — Wm. Ashton, 50 Hawthorne, San Francisco; Edward L. Peterson Co., 709 Bank of America Bldg., San Diego 1; Al C. Slater, 9011 15th Ave. N. E., Seattle; Gregg N. Cloos, 977 Jackson St., Denver 4; Rugar Electric, 517 Tumbleweed Lane, Las Vegas, Nev.

CEPCO, 1250 17th St., San Francisco 17, Calif.

CERTIFIED FLEXIBLE COUPLINGS, INC., 39 North Bond, Mt. Vernon, N. Y.—Pacific Pump, Oakland, Calif., and Portland, Ore.; Brooks Equipment, San Francisco; Denver Equipment, Denver.

CHALFANT PRODUCTS CO. INC., 11525 Madison Ave., Cleveland 7, Ohio—Ralph B. Black, 721 Loma Vista Dr. N.E., Albuquerque, N. M.; Bacon Electrical Equip., 1240 So. Elizabeth, Denver 10; Maydwell & Hartzell, Inc., 870 Tennessee St., San Francisco.

CHAMPION DeARMENT TOOL CO., S. Main, Meadville, Pa.—J. J. Brown Co., 257 S. Spring St., Los Angeles, and 420 Market St., San Francisco; Robert G. Sullivan Co., Rt. 6, Box 200, Port Orchard, Wash.; Wm. L. Knoyer Co., 138 W. 12th Ave., Denver 4.

CHAMPION LAMP WORKS, 330 Lynnway, Lynn, Mass.—Branch Offices: 650 19th St., San Francisco, and 326 S. San Pedro, Los Angeles 13.

CHANCE CO., A. B., Plant and Home Office at 210 North Allen St., Centralia, Mo.—Branches and ServiCenters: Dwight E. Argo, Regional Vice President and Sales Manager; 1511 Adrian Road, Burlingame, Calif.; 4527 Loma Vista Ave., Los Angeles 58; 1534 First Avenue South, Seattle 4 and 158 West 6950 South, Bountiful, Utah; 1220 S.W. Stark, Portland, Ore.

CHAPMAN VALVE MFG. CO., Indian Orchard, Mass. —Branch Offices: 564 Bryant St., San Francisco, and 2941 East 11th St., Los Angeles.

CHARLESTON RUBBER CO., Stark Industrial Park, Charleston, S. C.—Brenton Equipment Co., 374 Brannan St., San Francisco; Sanderson Safety Equipment Co., 816 S. W. Hawthorne Blvd., Portland; Safety & Supply Co., 115 Blanchard St., Seattle; Guardian Safety Equipment Co., 7223 S. Main St., Los Angeles; R & M Sales, 2214 S. Clayton, Denver.

CHASE BRASS & COPPER CO., 236 Grand St., Waterbury 20, Conn.—Branch Offices: 5101 Colorado Blvd., Denver 16; 6500 E. Washington Blvd., Los Angeles 54; 230 Shaw Rd., South San Francisco, and 1957 First Ave. So., Seattle 4.

CHASE-SHAWMUT CO., 374 Merrimac St., Newburyport, Mass.—Garnett Young & Co., in following cities: 3775 S. Broadway, Los Angeles; 390 Fourth St., San Francisco; 1928 First Ave., So., Seattle; 1238 N. W. Glisan, Portland, and 1400 N. 32nd, Phoenix; Allen B. Carpenter Co., 1314 Wazee St., Denver. (See ad, p. 11)

CHASE & SONS, INC., 26 Spruce St., North Quincy, Mass.—Branch Offices: 11808 Bloomfield Ave., Santa Fe Springs, Calif., and 680 Seventh St., Oakland, Calif.; Joseph F. Taraba Co., 1824 S.E. 50th St., Portland and 1016 First Ave., Seattle; H. C. Torrey Associates, 1429 No. First St., Phoenix.

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CHERRY ELECTRICAL PRODUCTS CORP., 1650 Deerfield Road, Highland Park, Illinois—Harris-Koetke Sales Co., 204 E. Hillside Blvd., San Mateo, Calif.; Walter Corman, 7432 W. 80th St., Los Angeles.

CHESTER CABLE CORP., Oakland Ave., Chester, N. Y.—Rutkin Electric Sales Co., 744 Kohler St., Los Angeles; J. H. Stumph, 1000 4th Ave. So., Seattle; Carlos W. Stone 2003 Parley's Blvd., Salt Lake City; Slaybaugh & Thompson, 100 W. 13th Ave., Denver; J. W. Marsh Co., 1258 Fitzgerald Ave., San Francisco, and 4216 West Jefferson Blvd., Los Angeles 16.

CHESTON COMPANY, FRANK C., 60 Park Place, Newark, N. J.—W. Montelius Price Co.,; 524 First Ave., Co., Seattle; Caesar Baldassari, 420 Market St., San Francisco.

CHICAGO COMMUTATOR CO., Wheeling Road and Exchange Ct., Wheeling, Ill.—Roy Silverman, 1316 N. Laurel Ave. Los Angeles 46; Wesco Elec'l Distributors, 184 S. Western Ave., Los Angeles 4; Associated Carbon Products, Inc., 207 W. Pico Blvd., Los Angeles.

CHICAGO EXPANSION BOLT CO., 1388 W. Concord Pl., Chicago, Ill.—Owen-Brink Company, 1006 Lowman Bldg., Seattle; H. H. Hobelman, 225 Kansas St., San Francisco; Dillon Stevens & Co., 1348 Venice Blvd., Los Angeles; Archibald and Millie, 1863 Wazee St., Denver 2, Colo.

CHICAGO PNEUMATIC TOOL CO., 6 E. 44th St., New York City—H. P. Hansen, 6935 Bandini Blvd., Los Angeles 22; A. B. Rudstrom, 145 Mitchell Ave., So. San Francisco; E. K. Hubbard, 2901 First Ave. So., Seattle 4; O. L. Briggs, 465 Acoma St., Denver 4.

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CHISHOLM-MOORE HOIST DIV., COLUMBUS McKINNON CHAIN CORP., Tonawanda, New York—E. E. Riddle, 320 Tenth St., San Francisco 3, and 475 Huntington Drive, Booth Bldg., Room 22, San Marino, Calif.

CHRISTIE ELECTRIC CORP., 3410 W. 67th St., Los Angeles 43, Calif.—C. R. Dalton Associates, 1037 Laurel St., San Carlos, Calif.; Samuel N. Stroum Co., 621 Michigan, Seattle 8; Parrish Electronics, 2130 So. Albion, Denver 22; David G. DeHaas Co., 1923 Cable St., San Diego 7, Calif.; Cramer & Co., 444 W. Camelback Rd., Phoenix.

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CIRCLE WIRE & CABLE CORP., 5500 Maspeth Ave., Maspeth, New York—Brill Electric Sales, 123 Kansas St., San Francisco 3; Electric Agencies, 506 Second Ave., Seattle; Elkins Electric Agency, 144 S. Mission Road, Los Angeles.

CLARE & CO., C. P., 3101 Pratt Blvd., Chicago 45, Ill.—Branch Office: 6047 Hollywood Blvd., Los Angeles, and 55 New Montgomery St., San Francisco; C. B. Parsons & Co., 3028 First Ave., Seattle 1; R. E. McClendon, 915 Yale S.E., Albuquerque, N. M.

CLARK CONTROLLER CO., 1146 E. 152nd St., Cleveland 10, Ohio—Branch Office: The Clark Controller Co., 4755 E. 49th St., Los Angeles, and 1770 Yosemite Ave., San Francisco 24; A. L. Polich & Associates, 734 N. W. Glisan St., Portland; H. M. Denny Co., 3410 16th Ave., West, Seattle 99.

CLARKEN CO., THE, 658 E. Elliott Ave., St. Louis 22, Mo.—W. E. Kirk Co., 415 Wall St., Los Angeles; C. E. Riggs Inc., 422 N.W. 8th Ave., Portland 9, and 408 Occidental Ave., Seattle 4.

CLAROSTAT MFG. CO., INC., Washington St., Dover, N. H.—Perlmuth Electronics & Assoc., 5057 W. Washington Blvd., Los Angeles; W. H. Connors, 375 Birch St., Denver; Sam Stroum, 621 Michigan, Seattle 8; Bill Kolans Co., 219 California Dr., Burlingame, Calif.

CLAYTON, MARK, & CO., 1900 Dempster St., Evanston, Ill.—Electric Agencies, 506 Second Ave., Seattle 4; Hodges & Glomb, Inc., 921 Bryant St., San Francisco; Rutkin Electrical Sales Co., 742 Kihler St., Los Angeles 21; Kenneth B. Schumann Co., 1073 Galapago St., Denver; R. L. Brewer Co. Inc., 102 S. El Paso St., El Paso, Tex.

CLECO (See Commercial Lighting Equip. Co.)

CLEVELAND CRANE & ENG. CO., Cleveland Tramrail Div., 5866 E. 289th St., Wickliffe, Ohio—Cleveland Tramrail Calif. Co., 870 Market St., San Francisco, and 6435 Corvette St., Los Angeles; Cleveland Tramrail Denver Co., 1700 Fifteenth St., Denver, Colo.; Cleveland Tramrail Utah Co., 334 W. 17th St., Salt Lake City; Nelson J. Leonard, 5764 28th Ave. N. E., Seattle; N. C. Sherman, Ltd., 1156 W. Pender St., Vancouver, B. C.

CLEVELAND DIESEL ENGINE DIV., GMC, 2160 W. 106th, Cleveland, Ohio—Branch Offices: 870 Harrison St., San Francisco, 433 Marine Ave., Wilmington, Calif., 3676 East Mart;ns, Portland; Evans Eng. & Equipt., 4300 11th Ave., N. W., Seattle.

CLIFTON CONDUIT CO., Div., General Cable Corp., 3300 Eastbourne Ave., Baltimore 24, Md.; Michel Bros., 1015 E. 16th St., Los Angeles; Baxter Co., 101 Kansas St., San Francisco; Northwestern Agencies, 4130 First Ave., So., Seattle; Northwest Sales Co., 1603 N. W. Johnson, Portland. (See ad, pp. 20, 21)

CLIFTON MFG. CO., INC., 34 Topalian Mattapan, Boston 26, Mass.—Harold M. Ross, 420 Market St., San Francisco; Reitz Sales Co., 1324 Bellaire St., Denver; M. Levin, 205 N. W. 10th, Portland; Eugene T. Senson, 4050 E. Olympic Blvd., Los Angeles.

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Electric Resistance Alloys
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Temperature Controllers

SAN FRANCISCO, 3	LOS ANGELES, 58	PORTLAND, 9	SEATTLE, 4	SPOKANE
1122 Howard St.	4800 District Blvd.	1632 N. W. Johnson St.	911 Western Ave.	5103 N. Hawthorne
UN 1-3000	LU 9-6321	CA 3-4197	MA 4-7297	FA 7-7955

COAST ELECTRIC & MFG. CO., 1733 N. E. 7th Ave., Portland—Branch Offices: Eugene, Seattle and Spokane.

COAST LIGHTING PRODUCT CO., 320 Judah St., San Francisco.

COBRA METAL HOSE, 5059 S. Kedzie Ave., Chicago, Ill.—John T. Fresbach Sales Co., 1302 Walker Lane, LaHabra, Calif.

COBRA WOOD TREATMENT CORP., 124 E. 40th St., New York City 16, N. Y.—Bridgeman Construction Co., Albuquerque, N. M.

COCHRANE CORPORATION, 17th St. Below Allegheny, Philadelphia, Pa.—B. F. Soffe, Western Sales Mgr., 767 S. Harvard Blvd., Los Angeles; C. C. Moore & Co., Engineers, 450 Mission St., San Francisco, and following cities: 1111 Wilshire Blvd., Los Angeles; 409 Luhrs Bldg., Phoenix; 1120 Failing Bldg., Portland, and 417 Smith Tower, Seattle; Hank Thurstin Co., 475 Acoma St., Denver 4; C. H. Spencer Co., 210 W. 33rd South, Salt Lake City 15; Honolulu Elec. Products Co. Ltd., 630 Piikoi, Honolulu 9, Hawaii.

COFFEY OVERHEAD DOORS, INC., 4829 W. Pico Blvd., Los Angeles 19 Calif.

COIL WINDING EQUIP. CO., Oyster Bay, N. Y.—Tri-State Supply Corp. in following cities: 544 S. San Pedro, Los Angeles, 554 Bryant St., San Francisco, 325 No. Westlake Ave., Seattle 9.

COLE & CO., INC., C. W., 2560 Rosemead Blvd., El Monte, Calif.—Chas. A. Blakely, 754 Natoma St., San Francisco; Wm. Benndorf Co., 221 E. Camelback Rd., Phoenix; Edw. L. Peterson Co., 709 Bank of America Bldg., San Diego 1; The Norwest Co., 210 No. 36th St. Seattle 3; W. H. Cress Co., 201 Concord Bldg., Portland 4, Ore.

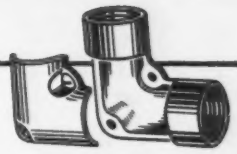
COLE ELECTRIC COMPANY, 8439 Steller Dr., Culver City, Calif.—Carlson Sales, Inc., 1201 Dexter, Seattle 9; A & A Supply Co., 114 Morningside, N.W., Albuquerque, N. M.; K. M. Ryals Co., 9 First St., San Francisco; Aviation Products, 1056 Yuba St., Aurora 8, Colo.; W. A. Cashin & Frank B. Tipton, 3222 Hill St., San Diego, Calif.; M. B. Gilbert Co. (Aircraft), 1608 Centinela Ave., Inglewood, Calif.

COLLINS MICROWAVE & CARRIER CO., Dallas, Tex.—Branch Office: Collins Radio Co., 2700 West Olive Ave., Burbank, Calif.

COLLYER INSULATED WIRE CO., 249 Roosevelt Ave., Pawtucket, R. I.—The Baxter Co., 101 Kansas St., San Francisco 3; Bruce Emmett, 830 S.E. Alder St., Portland, and 1016 First St., So., Seattle; 12102 East Boone St., Spokane, 190 W. First St. E., Farmington, Utah, and 410 Wall St., Salt Lake City; Earn S. Condon Co., 3450 Wilshire Blvd., Los Angeles 5; Rocky Mountain Elec. Sales, 16 Wazee Market, Denver.

COLSON CORPORATION, Jonesboro Ark.—Colson Equipment & Supply Co., Los Angeles, San Francisco, Oakland, Calif.; R. H. Brown Co., Seattle, Portland and Boise.

COLUMBIA CABLE & ELECTRIC CORP., 255 Chestnut St. ,Brooklyn, N. Y.—Frank H. Bran Co., 607 E. 6th St., Los Angeles; The Sanderlin Co., 129 First Ave. W., Seattle; 79 S.E. Taylor St., Portland; D. A. Steinkamp & Co., 16 Wazee St., Denver; Bergman & Marshall, Inc., 1370 Van Dyke, San Francisco.



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Corner Pull-In Elbows are ideal for space-saving, machine wiring, easy wire pulling. Besides the usual ½", ¾" and 1" sizes, Gedney alone brings you the new big sizes, 1¼", 1½" and 2". They're all cadmium plated for longest life . . . made of *malleable iron* to eliminate breakage.

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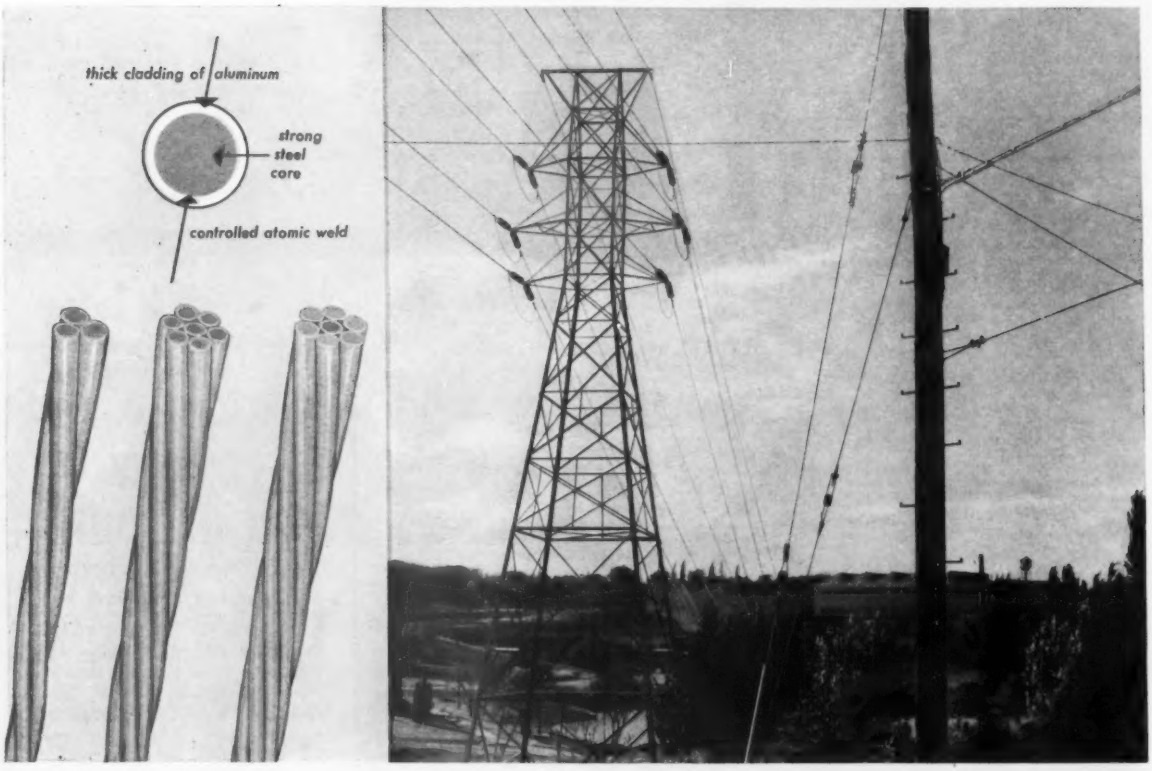
COLUMBIA ELECTRIC MFG. CO., 4519 Hamilton Ave., Cleveland 14, Ohio—The James L. Kearns Co., Inc., 6055 N.E. Glisan, Portland 13; Belllove Company, 420 Market St., San Francisco 11; Brenner-Fiedler & Associates, 7563 Melrose Ave., Los Angeles 46.

COLUMBIA ELECTRIC MFG. CO., 275 Steuart St., San Francisco, Calif.—Calhoun & Poxon Co., 5459 Alhambra Ave., Los Angeles; Ray L. Martin, 725 N. E. 25th Ave., Portland 7. (See ad, p. 6)

The *Alumoweld technique* of welding aluminum to steel

means TOP PERFORMANCE... LONG LIFE... LOW COST



• You cut costs and assure top performance of your overhead lines when you use Alumoweld for overhead ground wire, guys, messengers, and ACSR core wire • You'll have no maintenance worries because a thick cladding of pure aluminum permanently protects Alumoweld's high-strength steel core from corrosion. In fact, Alumoweld has the same corrosion resistance as solid aluminum wire—and 33% of the electrical conductivity. Compared to steel, Alumoweld has three times the conductivity . . . is 18% lighter . . . just as strong . . . and will last far longer.

For overhead ground wire, Alumoweld is tops. The high strength-to-weight ratio permits stringing with smaller sags, thus increasing the mid-span clearance. Its excellent conductivity quickly discharges transient currents to ground—reduces service interruptions.

For guys and messengers, Alumoweld gives long, trouble-free life because it cannot rust. And it's strong and easy to install.

For core wire in ACSR Conductors, Alumoweld eliminates the danger of electrolytic action because it is compatible with solid aluminum wires. It coordinates the life of the strength members with that of the conductor members.

Get all the facts on this low-cost wire and strand by writing today for bulletin E.D. 3000.

ALUMOWELD

COPPERWELD STEEL COMPANY
WIRE AND CABLE DIVISION, GLASSPORT, PA.

(See listing sales offices page 19)

COLUMBIA-GENEVA STEEL DIV., U. S. Steel Corp., R. W. Seely, V. P. (Charge of Sales), Equitable Life Bldg., San Francisco 4—F. S. Howard, Dist. V. P., 2087 E. Slauson Ave., Los Angeles; M. H. Freedman, Dist. V. P., 2345 N.W. Nicolai St., Portland 8, and Tower Bldg., Seattle; R. H. Maddan, Jr., Dist. V. P., Equitable Life Bldg., San Francisco; Alex Walker, Jr., Dist. V. P., Walker Bank Bldg., Salt Lake City; Maydwell & Hartzell, Inc., in following cities: 870 Tennessee St., San Francisco 7, 427 W. 5th St., Los Angeles 13, 5823 Henley Dr., San Diego, 120 S. 29th St., Phoenix, 2318 N. W. Vaughn St., Portland 10, 803 W. Jackson, Medford, 306 Dexter Ave., Seattle 9, 121 S. Monroe St., Spokane 8, 110 East 6th St., Tucson.

COLUMBIA METAL BOX CO., 260 E. 143rd St., New York City 51—George A. Gray Co., 2720 17th St., San Francisco.

COLUMBIA PRODUCTS, INC., Wrightsville, Penna.—Electric Agencies, Inc., 506 Second Ave., Seattle 4.

COMAR ELECTRIC CO., 3349 W. Addison, Chicago 18, Ill.—M. A. Stolaroff, 4622 W. Slauson Ave., Los Angeles 43; David H. Ross Co., 534 El Camino Real, San Carlos; George E. Harris & Co., Inc., 444 Dexter Horton Bldg., Seattle 4.

COMBUSTION ENGINEERING, INC., 200 Madison Ave., New York—Branch Offices: 510 W. 6th St., Los Angeles; 155 Sansome St., San Francisco; Skinner Bldg., Seattle 1; Joy & Cox, Inc., 2124 Broadway, Denver 5, and 415 Judge Bldg., Salt Lake City 11.

COMMERCIAL ELECTRIC CORP., 1197 McArthur Highway, Newark, N. J.—Guy deLeuze Co., 1923 Bryant St., San Francisco.

COMMERCIAL ENCLOSED FUSE CO OF N. J., 6812 Polk St., Guttenberg, N. J.—Electric Agencies, 618 2nd Ave., Seattle; Agencies Co., 836 Traction Ave., Los Angeles.

COMMERCIAL FILTERS CORP., 2 Main St., Melrose, Mass.—Mnotgomery Bros. Inc., 1122 Howard St., San Francisco; 4800 District Blvd., Los Angeles; 911 Western Ave., Seattle; 1632 N.W. Johnson St., Portland; 5103 N. Hawthorne, Spokane.

COMMERCIAL LIGHTING EQUIPMENT CO., 8636 Graham Ave., Los Angeles 2, Calif. — Martin Noack, 681 Market St., San Francisco.

COMMERCIAL PLASTICS CO.—Wayne C. Wells, 6055 N. E. Glisan, Portland.

COMPCO CORP., MITCHELL LIGHTING DIV., 1800 N. Spaulding, Chicago 47, Ill.—Dan Harvey, 501 E. 773 N. Bountiful, Utah; Henry G. Lehl, 14280 S. W. Uplands Ave., Oswego, Ore.

COMMERCIAL REFLECTOR & MFG. CO., 3109 Maple Ave., Los Angeles, Calif.

COMMONWEALTH ELECTRIC & MFG. CO., 83-105 Boston St., Boston, Mass.—Montgomery Brothers Inc., in following cities: 1122 Howard St., San Francisco; 4800 District Blvd., Los Angeles; 1632 N.W. Johnson St., Portland; 911 Western Ave., Seattle.

COMMUNICATION PRODUCTS CO., INC., Highway 79, Marlboro, N. J.—General Electric Supply Co., and Graybar Electric, all principal cities.

CONDULFOR CORP., 13560 Lorain Ave., Cleveland 11, Ohio—Fred D. Benz Co., 520 4th St., San Francisco; Sheeter & Co., 2508 W. 6th, Los Angeles.

CONDUIT NIPPLE MFG. CO., 1455 Spring Garden Ave., Pittsburgh, Pa.—George A. Gray Co., 2720 17th, San Francisco 10; Pacific Electric Sales Co., 140 S.E. 28th Ave., Portland; Reitz Sales Co., 1324 Bellaire St., Denver; Hayjax Co., 436 Colyton St., Los Angeles 13.

CONDUIT PIPE PRODUCTS CO., Div. of Harsco Corp., 153 W. Fulton St., Columbus, Ohio—J. J. Schaller, 5330 Alhambra Ave., Los Angeles, and warehouse at Eckert-Lloyd Co., 1950 Naomi Ave., Los Angeles 11; Slaybaugh-Thompson Co., 100 W. 13th Ave., Denver; Eckert Lloyd Co., 1225 Sixth St., San Francisco; Keeler-White Co., 523 N.W. Everett St., Portland 9, and 1041 Sixth Ave. S., Seattle 4. (See ad, p. 88)

CONNECTICUT HARD RUBBER CO., 407 East St., New Haven 9, Conn.—Branch Office: 504 Main St., El Segundo, Calif.; Miller Gasket Co., 2113 E. Florence Ave., Huntington Park, Calif.; Western Fibrous Glass Prod. Co., 4423 Fruitland Ave., Los Angeles and 739 Bryant St., San Francisco 7; R. Hurwich Co., 2546 10th St., Berkeley 2; A. B. Boyd Co., 763 E. 14 St., Los Angeles and 1235 Howard St., San Francisco 3.

CONNECTICUT TELEPHONE & ELECTRIC CORP., 70 Britannia St., Meriden, Conn.—Rollins Electric Co., 804½ S. Atlantic Blvd., Monterey Park, Calif.; Selo Electric Const. & Eng. Corp., 1050 N. 38th St., Seattle; Arthur & Allen, 420 Market St., San Francisco.

CONNOR ENGINEERING CORP., Shelter Rock Lane, Danbury, Conn.—Representatives: Fred W. Berger, 57 Post St., San Francisco 4; Arthur Forsyth Co., 2800 15th Ave. West, Seattle 99, and N. 120 Division St. Spokane, Wash.; Herman & von Rosenberg, 1051 11th St., Denver 4; Tenair, Inc., 1029 N. 1st St., Phoenix; Air Cond. Supply, 137 S. Anderson, Los Angeles 33.

CONOFLOW CORP., 2100 Arch St., Philadelphia, Pa. Milton Frank Co., 420 Market St., San Francisco; Branom & Leeland Instrument Co., 2137 Second Ave., Seattle 1, and 6019 N. E. Union Ave., Portland 11; G. D. Pribble Co., 5416 E. Beverly Blvd., Los Angeles 22; Darling Co., Wheat Ridge, Colo.; Control Equip. Co., 323 W. 14th St. So., Salt Lake City.

CONSOLIDATED DIESEL ELECTRIC CORP., 880 Canal, Stamford, Conn. — Consolidated Diesel Western, 15519 Lanark, Van Nuys, Calif.

CONSOLIDATED WESTERN STEEL DIV.—United States Steel Corp., P. O. Box 2015, Terminal Annex, Los Angeles 54, Calif.—Branch Offices: 120 Montgomery St., San Francisco; 2421 California Ave., Fresno; 1729 Exchange Bldg., Seattle; 1710 Oak St., Bakersfield; 600 W. Grant St., Phoenix, P. O. Box 390 Provo, Utah.

CONTINENTAL-DIAMOND FIBRE CORP., S. Chapel St., Newark 14, Del.—Sales Office and Warehouse: 3050 East 11th St., Los Angeles 23; Marwood Limited, 357 9th St., San Francisco 3; 1714 First Ave., South, Seattle 4, and 209 S.W. First Ave., Portland 4; Shefler-Kahn, P. O. Box 1587, Phoenix, Arizona.

CONTINENTAL ELECTRIC EQUIPMENT CO., 205 W. 4th St., Cincinnati, Ohio—Branch Office: 1356 Drake Ave., Burlingame, Calif.; Arthur & Allen, 420 Market St., San Francisco 11; Muth-Richards Co., 1804 Bush Pl., Seattle 44; Murphy-Hain Co., 331 South Mission Rd., Los Angeles; Donal Co., 3139 S.W. Altadena Terrace, Portland; Ralph B. Black, 1025 Hermosa Dr. S.E., Albuquerque; Electric Sales Co., 818 East 21st South, Salt Lake City; Colorado Western Sales Co., Box 4133, So. Denver Sta., Denver 9.

CONTINENTAL RADIANT GLASS HEATING CORP., 1 E. 35th St., New York City—Glassheat of Longview, 1023 15th St., Longview, Wash.; Glassheat of Spokane, 9 East Empire, Spokane.

CONTINENTAL RUBBER WORKS, 1953 Liberty Ave. Erie, Pa.—Branch Office: 3121 E. 12th, Los Angeles, Calif.

CONTINENTAL WIRE CORP., 322 N. Cherry St. Ext., Wallingford, Conn.—Tri-State Supply Co., 544 S. San Pedro, Los Angeles, and 554 Bryant St., San cisco; Pacific Electric Sales Co., 140 S.E. 28th Ave., Portland, Ore.; Ralph B. Black, 4716 Trumbull, S.E., Albuquerque, N. M.

CONTROLAIR MFG. CO., 1932 So. Compton, Los Angeles 11, Calif.

CONTROL CO. OF AMERICA, Schiller Park, Ill.—Branch: 139 Illinois St., El Segundo, Calif.

CONTROL CORPORATION, 718 Central Ave., N. E., Minneapolis, Minn.—Garland-Affolter Eng. Co., in following cities: 417 South Hill St., Los Angeles; 58 Sutter St., San Francisco; 2603 Western Ave., Seattle; 1233 N. W. 12th Ave., Portland; Slaybaugh-Thompson Co., 100 W. 13th Ave., Denver; Frank W. Gorman, P. O. Box 223, El Paso; Gorman Eng;neering Co., P. O. Box 743, Albuquerque, N. M., and Box 10065, Phoenix.

CONTROL PANEL CORP., 517 W. Monroe St., Chicago, Ill.—Central Station Equip. Co., 2323 Aviation Highway, Tucson, Ariz.

CONTROL PRODUCTS, INC., 306 Sussex, Harrison, N.J.—Carl E. Holmes Co., 107 N. Ave. 64, Los Angeles; Don Smith Sales Co., 2320 N. 45th St., Seattle; Price Eng. Sales Assoc., 4611 Homestead, Littleton, Colo.

CONTROL SWITCH DIVISION, 1420 Delmar Dr., Folcroft, Pa.—Fred McDonald, 1622 100th Ave. N.E., Bellevue, Wash.; J. Schlichtmann, P. O. Box 329, Lafayette, Calif.; J. Shnable, 139 Illinois St., El Segundo, Calif.; Howe & Howe, P. O. Box 10417, Phoenix, Ariz.

CONTROLS CORP. OF AMERICA, A P Controls Div., 2450 N. 32nd St., Milwaukee 45, Wis.—Branch: 139 Illinois St., El Segundo, Calif.; Dick Morton, 211 Polhemus Ave., Atherton, Calif.; Fred MacDonald, 1622 100th Ave. N.E., Bellevue, Wash.

CONTROLS CORP. OF AMERICA, Soreng Sales Div., Schiller Park, Ill.—Jackson Edwards Co., 1401 Lankershim Blvd., North Hollywood, Calif.

COOK ELECTRIC CO., 2700 N. Southport Ave., Chicago 14, Ill.—Kellogg Switchboard & Supply, 23 Broderick Road, Burlingame, Calif. Branch: Glendale 4, Calif., 302-B So. Brand Blvd., Mr. J. W. Wilson, Mgr.; Jack Pruzan Co., 109 Jackson, Seattle; Leich Sales, 11401 West Pico, Los Angeles. Wire Com. Div.—Maydwell & Hartzell, Inc., in following cities: 870 Tennessee St., San Francisco 7, 427 W. 5th St., Los Angeles 13, 5823 Henley Dr., San Diego, 120 S. 29th St., Phoenix, 2318 N. W. Vaughn St., Portland, 803 W. Jackson, Medford, 306 exter Ave., Seattle 9, 121 S. Monroe St., Spokane 8, and 110 East 6th St., Tucson.

COOK'S SONS, INC., ADAM—Arthur & Allen, 420 Market St., San Francisco; Krause Engineering, 741 E. Artesia, Long Beach.

COOPER HEWITT ELECTRIC CO., 720 Grand St., Hoboken, N. J.—Shannon Luminous Materials Co., 7356 Santa Monica Blvd., Hollywood 46, Calif.

CO-OPERATIVE UTILITIES CO., INC., 4637-39 Mulberry St., Philadelphia 24, Pa.—Electric Agencies, 6420 Salem St., Oakland; H. G. Rising, 151 N. Vermont Ave., Los Angeles, and Fletcher Elec'l Specialty Co., 4150 S. Main St., Los Angeles; Advance Tool Supply Co., 3056 24th St., San Francisco; L. L. Burror, 1126 8th Ave., Oakland; Electrical Specialty Co., 158 11th St., San Francisco; 2406 First Ave. South, Seattle 4, and 2026 Arapahoe St., Denver.

T. J. COPE DIV.—ROME CABLE CORP., 3rd and Walnut Sts., Collegeville, Pa.—Hamilton Associates, 1236 Elati St., Denver; Randolph Engineering Corp., 12202 E. Garvey Ave., El Monte, Calif.; Aluminum Co. of America, Rome Cable Division, 1411 Fourth Ave. Bldg., Seattle 1 and 2509 Equitable Life Bldg., San Francisco 4.

COPES-VULCAN DIV., Blaw-Knox Co., 939 W. 26th St., Erie, Pa.—George Hallen Sales Co., 2650 Cherry Ave., Long Beach 6; John Morley & Co., 1001 Tennessee St., San Francisco; Pacific Steam Control, 4023 Aurora Ave., Seattle; C. H. Spencer & Co., Salt Lake City; Tank Thurston Co., 475 Acoma, Denver.

COPPERWELD STEEL, Glassport, Pa.—Branch Offices: A. B. Leach, Dist. Mgr., Monadnock Bldg., San Francisco; G. R. Craig, Dist. Mgr., P. O. Box 796, Bellevue, Wash. (See ad, p. 18)

COPPERWELD STEEL CO., FLEXO WIRE DIV., 70 W. 1st St., Oswego, N. Y. — E. Jordan Brooks Co., 6601 Telegraph Rd., Los Angeles 22, and 571 Howard St., San Francisco.

CORDOMATIC DIVISION, 1724 West Indiana Ave., Philadelphia, Pa.—Roland S. Boreham Co., 615 Bendix Bldg., Los Angeles 15; Jack Dowling Co., 2437 Monta Vista Place, Seattle 99; C. E. Moffet Co., 975 Indiana St., San Francisco 7.

CORNELL DUBILIER, Power Capacitors Div. Federal Pacific Elec. Co., 50 Paris St., Newark, N. J.—W. C. King, 2064 East 27th St., Los Angeles; Myron Swendsen, Box 156, Room 601, Boise, Ida.; James D. Stephens, 49 N. 2nd West St., Salt Lake City; Branch offices Federal Pacific Elec., San Francisco, Los Angeles, Portland, Seattle, Spokane.

CORNING GLASS WORKS, Corning, N. Y.—Branch Office: 1355 Market St., San Francisco; 1125 West 6th St., Los Angeles; 10714 N.E. 24th St., Bellevue, Wash.; Leo Kaufmann, 72 Sacramento St., San Francisco.

CORNISH WIRE CO., INC., 50 Church St., New York City—J. M. Fincke, 1848 N. Main St., Los Angeles 31; The Sanderlin Co., 129 First Ave. W., Seattle 99; Howard & Goepp Co., 1301 6th St., San Francisco 7.

CORONA MFG. CORP., 11300 Tuxford St., Sun Valley, Calif.—Sold direct.

COTTRELL PAPER CO., INC., Rock City Falls, N. Y.—Tri-State Supply Corp., in following cities: 544 S. San Pedro St., Los Angeles; 554 Bryant St., San Francisco; 325 Westlake Ave. North, Seattle 9, and Electric Motor Supply Co., 1646 Blake St., Denver; J. R. Christiansen Agency, 247 East 5th So., Salt Lake City 2.

COUCH CO., INC., S. H., 3 Arlington St., North Quincy, Mass.—Garnett Young & Co., in following cities: 390 4th St., San Francisco; 3775 Broadway So., Los Angeles; 1928 First Ave. So., Seattle; 1238 N.W. Glisan St., Portland, and 1400 N. 32nd St., Suite B, Phoenix; Gregg N. Cloos Co., 977 Jackson St., Denver.

COUNTER & CONTROL CORP., 4503 West Brown Deer Rd., Milwaukee 18, Wis.—R. B. Clapp Co. Inc., 5404 Alhambra Ave., Los Angeles 32.

CRAMER CONTROLS CORPORATION, INC., Centerbrook, Conn.—Western Electro-Mechanical Co., 300 Broadway, Oakland; Allen I. Williams Co., 2261-2263 S. Albion St., Denver 22; Eicher & Co., 5 West Harrison St., Seattle 99; Branch Office: 13113 Ventura Blvd., Studio City, Calif.

CRANE HOIST ENGINEERING CORP., 6515 Salt Lake Ave., Bell, Calif.—Branch: 426 Hester St., San Leandro, Calif.; Mechanical Equip., 222 S. Hinton Ave., Scottsdale, Ariz.; Norman Rupp Co., 103 S.W. Front Ave., Portland 4; Patten Eng. Co., 1795 Sheridan, Denver 14.

CRESCENT INSULATED WIRE & CABLE CO., 319 N. Olden Ave., Trenton, N. J.—Through local distributors.

CRESCENT TOOL CO., 200 Harrison St., Jamestown, N. Y.—Sold through all leading hardware jobbers.

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and out the finest

conduit: top quality steel, hot-dipped galvanized inside and out, guarantees a uniform protective zinc covering and ensures a super smooth inner surface for fast wire pulling. threads: no mechanical wiping of threads after dipping for full zinc protection; threads are protected from damage during storage or shipping by a removable plastic thread protector. conduit and threads: chromated to give excellent protection against white rust.

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This exclusive 3 step method of quality control production assures you of the finest rigid steel conduit for every type of installation. Manufactured in a full range of sizes from ½" to 6", General Cable's rigid steel conduit is UL approved and meets Federal specification WW-C581C and ASA specification C-80.2-1959. Sold through electrical distributors.

General Cable Corporation,
730 Third Ave., N.Y. 17, N.Y.

GCC
GENERAL CABLE CORPORATION

(See listing, Sales Offices, p. 17)

CRESCENT VALVE CO., 611 Shirley Ave., El Monte, Calif.—Distributor, Barksdale Valves, 5125 Alcoa Ave., Los Angeles 58.

CROSS & CO., W. W., Jaffrey, N. H.—Duane C. Lyle, 4085 Palo Alto, Calif.; John C. Adams, 1110 S. Atlantic Blvd., Los Angeles; Frank J. Martin, 821 E. 86th St., Seattle.

CROUSE-HINDS CO., Wolf and 7th North Sts., Syracuse, N. Y.—Branch Offices: H. L. White, Commercial Vice-President, and H. E. Riggs, Regional Mgr., 510 Petroleum Bldg., Los Angeles; W. C. Schafer, Regional Mgr., 370 Brannan St., San Francisco; L. F. Busse, Regional Mgr., 566 Broad St., Seattle; F. A. Walker, 212 N.W. 14th Ave., Portlar; J. R. Petree, 138 South Second East St., Salt Lake City.

CROWN INDUSTRIAL PRODUCTS CO., 713 Amsterdam St., Woodstock, Del.—Tri-State Supply Corp., 544 S. San Fedro, Los Angeles 13, and 325 Westlake Ave., North, Seattle 9; Electric Mortor Supply, 1646 Beach St., Denver 2; Insulation & Wires, Inc., 6515 E. Fleet St., Los Angeles 22; J. R. Christensen, 247 E. 5th St. Salt Lake City 2; Hughes Co. Aerosol) 4515 Alger St., Los Angeles, 2811 W. Ninth St., Denver 4, 564 College Ave., Palo Alto, Calif., and 1107 Bailey St., Seattle 8, Wash.

CRUCIBLE STEEL CO. OF AMERICA, Oliver Bldg., Pittsburgh 30, Pa.—Branch Offices: G. T. Fraser, Western Sales Mgr., 6033 E. Bandini Blvd., Los Angeles 22, 2050 Bryant St., San Francisco, P. O. Box 5084, Denver 17, 2755 First Ave. South, Seattle 4, 2330 N. W. Raleigh St., Portland 10.

CRYDOM LABORATORIES, 926 Atlantic Blvd., Los Angeles, Calif.—Artwell Electric, Inc., 1485 Bayshore Blvd., San Francisco 24.

CRYSTALHEAT CO., 14761 Keswick St., Van Nuys, Calif.—Wm. Proby and Assoc., 2915 13th Ave. S. W., Seattle, and 1308 N. W. Everett St., Portland; American Elec. Heating & Air Conditioning Corp., 9769 Wilshire Blvd., Beverly Hills, Calif.

CURTIS DEVELOPMENT & MFG. CO., 3246 N. 33rd St., Milwaukee, Wis.—A. J. Nelson, Box 5502, Denver; C. B. Parsons, 3028 First Ave., Seattle; James M. Krotozyner, 544 Market St., San Francisco; Walter W. Corman, 7432 W. 80th St., Los Angeles 45; Distributor: Calif. Wholesale Elec. Co., 2548 Yates Ave., Los Angeles 22.

CURTIS-ALLBRITE LIGHTING, INC., 352 Shaw Road, South San Francisco, Calif.—All-Brite Lighting Div., 352 Shaw Road, South San Francisco, Calif.; Curtis Lighting Division, 6135 West 65th St., Chicago, Ill.; Branch Offices: 964 North Virgil Avenue, Los Angeles and 2316 6th Ave. ,Seattle.

CUSTOM CONTROL & MFG. CO., 9416 Gidley, Rosemead, Calif.

CUTLER-HAMMER, INC., 234 N. 12th St., Milwaukee, Wis.—Branch Offices: 1331 T St., Sacramento; 155 Van Ness Ave., Fresno; 6431 Bandini Blvd., Los Angeles 22; 3780 Fifth Ave., San Diego; 1661 Industrial Way, Belmont, Calif.; 253 Rio Grande St., Salt Lake City 1; 3500 N. Central Ave., Phoenix; 126 W. 5th Ave., Denver 4; 208 S.W. Stark St., Portland 4; 619 8th Ave. South, Seattle 4; E. 1717 Thurston Ave., Spokane 34; 210 Wilcox Lane, Honolulu 17, Hawaii.

D. & H. ELECTRIC CO., 2827 Altura Ave., La Crescenta, Calif.—Howard & Goepp, 1301 6th St., San Francisco 7; John M. Fincke, 1848 North Main, Los Angeles; W. H. Cress Co., 201 Concord Bldg., Portland.

DAGE TELEVISION DIVISION, Thompson, Ramo Woolridge, 204 Hindry Ave., Inglewood, Calif.—Monson Electric Co., 360 Sixth St., San Francisco; Mutual Elec. Supply, 1905 Jackson St., Seattle 14; Antennavision, Inc., 2949 W. Osborn Rd., Phoenix; Hoffman Sales, 426 W. College St., Los Angeles.

DAILEY BODY CO., 440 High St., Oakland, Calif.

DAKOTA ENGINEERING, INC., 4315 Sepulveda Blvd., Culver City, Calif.—Paramount Technical Agency, 9210 28th Ave. N.W., Seattle.

DANIELS STANDARDS, INC., 1719 W. End Ave., Nashville, Tenn.—Strong & Humphrey, 110 Yuma, Denver 23.

DAVEY TREE SURGERY, Russ Bldg., San Francisco—Branches: Los Angeles, San Diego, Sacramento, Fresno, Belmont, La Grande, Ore., Reno, and Las Vegas, Nev.

DAVIES MOLDING CO., HARRY, 1428 N. Wells St., Chicago, Ill.—Littrell Hardware Lines, Inc., 3121 E. 12th, Los Angeles, and 1325 Egbert St., San Francisco.

DAY-BRITE LIGHTING, INC., 5411 Bulwer Ave., St. Louis 7, Mo.—Assembly Plant, 530 Martin Ave., Santa Clara, Calif. Sales Offices: 3156 Wilshire Blvd., Los Angeles; 31 Geary St., San Francisco 4; Edward L. Peterson Co., 709 Bank of America Bldg., San Diego; Alan Humphrey, 328 E. Lansing St., Fresno, Calif.; Stevens Sales Co., 1476 Major St., Salt Lake City; O. A. Taylor, 6346 N. E. Rodney, Portland; Jas. Hallek, 4204 Palo Duro, N. E., Albuquerque, N. M.; O. E. Fleischer, 1700 15th St., Denver; Wm. Bonndorf Co., 221 E. Camelback Rd., Phoenix, Ariz.; D. A. Olson Co., 420 East 45th St., Seattle; L. J. Van Nostrand, 1331 T St., Sacramento, Calif.; M. A. Cabot, P. O. Box 3708, Honolulu, Hawaii.

DAYNA LIGHTING, INC., New Britain, Pa.—Stearns Sales, Box 945, Rt. 6, Tacoma; Norman Ross, 4227 N. Monte Vista, Scottsdale, Ariz.

DAYSTROM, INC., DAYSTROM-WESTON SALES DIV., Frelinghuysen Ave., Newark, N. J.—Branch Office: 831 Airport Way, Seattle 4; 2001 S. Grand Ave., Los Angeles and 1125 Marshall St., Redwood City, Calif., and 221 E. Camelback Rd., Phoenix; Peterson Co., 4949 Colorado Blvd., Denver 16.

DAYTON ELECTRIC MFG. CO., 126 S. Oakley Blvd., Chicago 12, Ill.—W. W. Grainger, Inc., in following cities: 519 Potrero Ave., San Francisco; 1401 E. 3rd St., Los Angeles; 2200 Adeline St., Oakland; 101 Van Ness Ave., Fresno, Calif.; 1001 9th Ave. S., Seattle; West 22 Main St., Spokane; 2410 N. Mississippi Ave., Portland; 527 N. Third, W., Salt Lake City; 144 W. Market, San Diego; 1022 N. 21st Ave., Phoenix; 2520 Larimer St., Denver 5.

DAZOR MFG. CORP., 4481 Duncan Ave., St. Louis 10, Mo.—General Electric Supply Co., and Westinghouse Electric Supply Co., all principal cities.

DE BOTHEZAT FANS DIV., American Machine and Metals, Inc., East Moline, Ill.—E. H. Langdon Co., 72 Vine St., Seattle; Hubert Kaub & Co., 1025 Santa Fe Dr., Denver; L. F. Church Co., 750 Natoma St., San Francisco; C. & S. Equip. Co., 235 W. 22nd St., Los Angeles; H. W. McKenzie Co., 100 N.E. Holladay, Portland; Sales Eng. Co. Inc., 205 W. Utopia Ave., Salt Lake City; Electric Locator & Sales Co., 3921 Delamar, N.E., Albuquerque; O. K. McCullough Co., 1029 North First St., Phoenix.

DEE ELECTRIC CO., 1101 N. Paulina St., Chicago 22, Ill.—Claude Michael Agency, 703 W. Ivy St., Glendale, Calif.; Tri-State Supply Corp., 544 S. San Pedro St., Los Angeles.

DeLIGHTS, INC., OF CALIFORNIA, 2221 Potrero, So. El Monte, Calif.—M. A. Wagner, 1075 Broadway, Belmont, Calif.; J. A. Ware, 721 W. Buchanan St., Phoenix.

DeLUXE Coils, INC., Wabash, Ind.—Philip H. Heckendorn, 803 Houseman St., La Canada, Calif.; Richard Legg Co., 1633 N.W. 21st St., Portland.

DELTA ELECTRIC CO., 33rd and Nebraska Sts., Marion, Ind.—Lynn & Brooks, 1485 Bayshore Blvd., San Francisco; 3055 Wilshire Blvd., Los Angeles; Room 212, Colorado Bldg., Denver 2; and 1990 Alaskan Way, Seattle 1.

DELTA-STAR ELECTRIC DIVISION—(See H. K. Porter Co., Inc.

DELTA-STAR ELECTRIC DIV., ELECTRIC SERVICE WORKS—(See H. K. Porter Co. Inc.

DENISON ENGINEERING, DIV., American Brake Shoe Co., 1160 Dublin Rd., Columbus, Ohio—Branch Office: 1651 E. El Segundo Blvd., Hawthorne, Calif.

DENISON MFG. CO., R. B., 386 Broadway, Bedford, Ohio—Hundley Co., 3282 Fletcher Dr., Los Angeles; H. R. Kaewert, 750 Natoma St., San Francisco 3; H. D. Campbell Co., 220 9th Avenue North, Seattle 9.

DESCO MFG. CO., 551 W. Glenoaks Blvd., Glendale 2, Calif.—Graybar Electric Co., all principal cities.

DESERT AIR LAMP CO., 1518 N. Western Ave., Los Angeles 27, Calif.—McCalls Desert-Air Lamp Co., 1331 Park St., Alameda, Calif.

DESIGNERS FOR INDUSTRY, INC., Fulton Parkway, Cleveland, Ohio—William Geist, 3177 Glendale Blvd., Los Angeles 39; Wm. D. Collins, Jr., 535 Middlefield Rd., Palo Alto, Calif.; Emerson F. Riber, P. O. Box 1621, Seattle 55; William E. Brown, 130 S. Yarrow St., Denver 26.

DESPATCH OVEN CO., 619 S. E. 8th St., Minneapolis, Minn.—Lombard Smith, 714 W. Olympic Blvd., Los Angeles 15; Matheson-Doherty Co., 225 Shaw Rd., So. San Francisco; Insulation & Wires, Inc., 6514 E. Fleet St., Los Angeles and 255 Loomis St., San Francisco.

DETJEN CORPORATION, Electrocuting Fly Screen Div., 1-3 Main St., Pleasant Valley, N. Y.—Distribution thru all General Electric Supply Company branches.

DETROIT COIL CO., 2435 Hilton St., Ferndale, Mich.—Hundley Co., 3282 Fletcher, Los Angeles 15; C. B. Parsons & Co., 3028 First, Seattle 1.

DETROIT ELECTRIC FURNACE, Div. Kuhlman Elec. Co., 1000 26th St., Bay City, Mich.—Otto H. Rosentreter Co., 8411 State St., South Gate, Calif.

DIALIGHT CORP., 60 Stewart Ave., Brooklyn 37, N. Y.—F. W. Moulthrop Co., 575 Tenth St., San Francisco; Jack Berman Co., 1141 S. La Cienega Blvd., Los Angeles; Burt C. Porter Co., 1209 Poplar Place, Seattle; Hyde Electronics Co., 888 S. Lipan St., Denver.

DIAMOND EXPANSION BOLT CO., INC., Garwood, N. J.—Branches: 462 E. 4th St., Los Angeles and 336 Ritch St., San Francisco; L. S. Reed & Co., 1018 Lawrence St., Denver; Hendry-Murray Co., 508 Fifth Ave. South, Seattle.

DIAMOND PRODUCTS CO., INC., 335 Prospect, Elyria, Ohio—E. B. Cook Co., 1063 Howard St., San Francisco.

DIAMOND WIRE & CABLE CO., 445 Park Ave., Sycamore, Ill.—Branch Offices: 274 Harbor Way, South San Francisco; 6415 E. Fleet St., Los Angeles 22; 213 N. 1st Ave., Phoenix; 155 Van Ness, Fresno, Calif.; 1231 N. W. Hoyt St., Portland, and 2208 White-Henry-Stuart Bldg., Seattle; L. D. Hood Sales, 1133 W. 8th Ave., Denver

DICKE TOOL CO., Downers Grove, Ill.—Maydwell & Hartzell, Inc., 870 Tennessee St., San Francisco; 427 W. 5th St., Los Angeles; 306 Dexter Ave., Seattle; 121 S. Monroe, Spokane 8; 2318 N. W. Vaughn St., Portland 10, Ore.; 120 So. 29th St., Phoenix; 5823 Henley Dr., San Diego; 803 W. Jackson, Medford; 110 East 6th, Tucson; Jack Pruzan Co., 109 Jackson St., Seattle 4; Pole-Line Distributing Co., 405 West 13th South, Salt Lake City.

DIEHL MFG. COMPANY, Finderne Plant, Somerville, N. J.—Branch: Keeler White Co. (Fans), 615 Seventh St., San Francisco 3; Keeler-White-Portland, 523 N. W. Everett, Portland 9; Keeler-White, Inc., 1041 6th Ave. So., Seattle 4; W. E. Starr & Co., 926 South Atlantic Blvd., Los Angeles 22; Spicer-Lindsay Associates, 4960 East Evans Ave., Denver.

DIELECTRIC PRODUCTS CO., 4830 McKnight Road, Pittsburgh 9, Pa.—Tri-State Supply Corp., 544 S. San Pedro St., Los Angeles, and 325 Westlake Ave. North, Seattle 9; Hodges & Glomb, 921 Bryant St., San Francisco.

DINGS MAGNETIC SEPARATOR CO., 4740 W. Electric Ave., Milwaukee, Wis.—Samson Sales Co., 420 Market St., San Francisco; A. W. Nash, 2112 S. Atlantic Blvd., Los Angeles; Joseph F. Taraba Co., P. O. Box 5232, Portland.

DODGE MFG. CORP., South Union St., Mishawaka, Ind.—Branch: L. O. Carroll, West Coast Mgr., 55 New Montgomery St., San Francisco; R. C. Kingsbury, 7744 Industry Ave., Rivera, Calif.; Marion Studebaker, 2515 Stubb St., Milwaukee (Portland) Ore.; Don Leekey, 1483 S. Eudora, Denver.

DOERR ELECTRIC CORP. (Formerly Electro Machines, Inc.), Cedarburg, Wis.—Cox Sales & Engineering, 1819 W. Valley Blvd., Alhambra, Calif.; Monarch Corp., 2075 Williams St., San Leandro, Calif.; Donel Co., P. O. Box 7013, Portland; Caskey Engineering, 2200 First Ave., So., Seattle 4.

DOLCO MFG. CO., 2350 Curry St., Long Beach 5, Calif.—(Direct from factory)

DOLE VALVE CO., 1901 W. Carroll Ave., Chicago, Ill.—Branch: 6351 Wilshire Blvd., Los Angeles 48.

DOLLINGER CORP., 20 Center Park, Rochester 3, N. Y.—J. C. McDougall Co., 520 1st Ave. South, Seattle 4.

DOLPH CO., JOHN C., New Road, Monmouth Junction, N. J.—Tri-State Supply Corp., 544 S. San Pedro St., Los Angeles; 554 Bryant St., San Francisco; 325 Westlake Ave. North, Seattle; Clarence W. Silver Co., 550 W. 7th South St., Salt Lake City; Powell Electric Corp., 5001 Central Ave. N. W., Albuquerque; Electric Motor Supply Co., 1646 Blake St., Denver 2.

DONGAN ELECTRIC MFG. CO., 2987 Franklin, Detroit, Mich.—Keeler-White Co., 615 Seventh St., San Francisco; 1041 Sixth Ave. So., Seattle; 523 N. W. Everett, Portland; Hayjax Co., 436 Colyton Ave., Los Angeles 13; S & W Electric, 2144 Welton St. Denver; Control Equipment, 323 W. 14th St., Salt Lake City; W. A. Roben, 1001 Westlake, No., Seattle 9.

DOSSERT MFG. CO., 249 Huron St., Brooklyn, N.Y.—The Curry Co., 190 Lombard St., San Francisco; Matzinger-Johnson Co., 1329 Willow St., Los Angeles; Henry G. Lahl, 14280 S. W. Uplands Drive, Oswego, Ore.; R & M Sales, 2214 S. Clayton St., Denver.

DOW CORNING CORP., Midland, Mich.—Branch Offices: 3033 W. Mission Rd., Alhambra, Calif.; Representatives: C. D. LaMoree Co., 2433 Birkdale St., Los Angeles; 2216 Fifth St., Berkeley, Calif.; Tri-State Supply Co., 544 S. San Pedro, Los Angeles; 554 Bryant St., San Francisco, and 325 Westlake Ave. North, Seattle; J. R. Christensen, 247 E. 5th S., Salt Lake City 11; C. E. Riggs, 317 N. W. Broadway, Portland; 408 Occidental Ave., Seattle; Pacific Chemical and Fertilizer, Honolulu 10, Hawaii.

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This new super line of "Chem Marine" devices are engineered from corrosion resistant materials capable of withstanding the harmful effects of moisture, brine, grease, oils and many acids. They are designed for industrial applications such as plating rooms, shipping platforms, yards, shops, warehouses, or wherever corrosion or chemical action is a problem.

Special Materials:

"INSULPRENE"—a Du Pont neoprene compound.

"MONEL® METAL"—Reg. Trademark of INCO.

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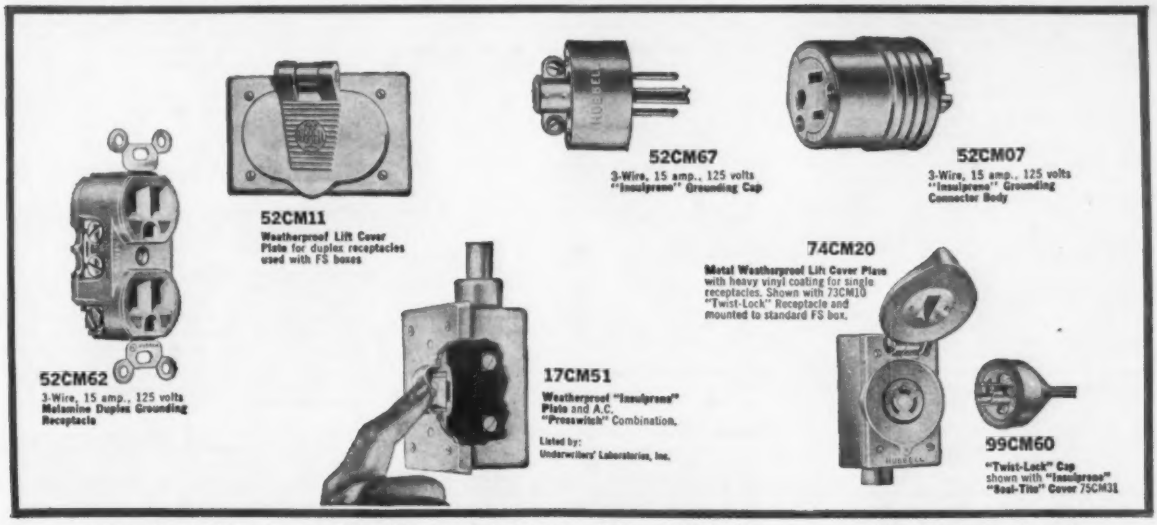
HEAVY NICKEL-PLATED CURRENT CARRYING PARTS.



"Chem Marine" devices are identified by their bright yellow color and a few representative items are illustrated above. "Chem Marine" is supplied in a wide variety of "Twist-Lock" and grounding devices to fit any industrial or marine application.

"Chem Marine" units are sold exclusively through authorized Hubbell distributors. For complete information write the "Chem Marine" Department of Harvey Hubbell, Incorporated.

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BRIDGEPORT 2, CONNECTICUT *The finest in rugged wiring devices since 1888.*

(See listing sales offices page 38)

DOYLE VACUUM CLEANER CO., 225 Stevens S. W., Grand Rapids, Mich.—Harry C. Younger, 1446 Royal Blvd., Glendale 7, Calif.; Wm. T. Naylor, 780 S. Third West, Salt Lake City; Hank Moran, 3871 Piedmont Ave., Oakland; George Mangold, 6506 N.E. 24th Ave., Portland 11.

DRAKE MFG. COMPANY, 4626 N. Olcott Ave., Chicago 31, Ill.—Wm. J. Purdy Co., 312 7th St., San Francisco; Fred F. Alleman Co., 1625 Blake Ave., Los Angeles; Fred H. Haight, 3212 Eastlake Ave., Seattle 2. Stocking Distributors: Radio Products Sales, 1501 S. Hill, Los Angeles 15; F. B. Connelly Co., 1015 Republican St., Seattle 9 and Seattle Radio Supply, Inc., 2117 Second Ave., Seattle 1.

DRAKE ELECTRIC MFG. CO., 3656 N. Lincoln Ave., Chicago, Ill.—Cohn & Shane, Inc., 1323 Venice Blvd., Los Angeles and 685 Folsom St., San Francisco.

DRIER BROTHERS, INC., 7301 Woodlawn Ave., Chicago 19, Ill.—J. H. Kay, 10531 So. Julius Ave., Downey, Calif.; Garrison & Co., Builders' Exchange, 850 S. Van Ness, San Francisco 10; Cliff Warner, 3063 Albion St., Denver; Norman G. Peper, 1446 S. E. 58th Ave., Portland.

DREMEL MFG. CO., 2409 18th St., Racine, Wis.—Federated Sales Co., 1426 S. San Gabriel, San Gabriel, Calif.

DRIVER COMPANY, WILBUR B., 1875 McCarter Highway, Newark, N. J.—Branch Office: 2378 Westwood Blvd., Los Angeles.

DRIVER-HARRIS CO., Harrison, N. J.—Angus-Campbell, Inc., 4417 S. Soto St., Los Angeles 58, and 760 Tennessee St., San Francisco 7.

DUAL-LITE CO., INC., P. O. Box 5, Newton, Conn. —A. Cruthers Boyd Co., 1400 S St., Sacramento, Calif.; Krieger-Koufax Co., 429 S. Western Ave., Los Angeles 5; Burt Schwartz, 1705 30th St., San Diego 2; Harry F. Ream Sales Agency, 1216 Santa Fe Dr., Denver 4; McGillan Sales Co., 1100 Hermosa Drive S.E., Albuquerque.

DUCT-O-WIRE CO., 6520 Bissell, Bell, Calif.—Arthur & Allen, 420 Market St., San Francisco, Calif.; Norman Rupp Co., 103 S.W. Front Ave., Portland, Ore.

DUFF-NORTON CO., 2710 Preble Ave., Pittsburgh 33, Penna.—Branch: 1016 Howard St., San Francisco; 1505 Los Lomas N.E., Albuquerque.

DuKANE CORP., St. Charles, Ill.—Sound Products of Calif., 181 Beacon St., So. San Francisco; Communications Co., 650 6th Ave., San Diego 1; Douglas Roesch, Inc., 1832 S. Flower St., Los Angeles 7; Stagecraft Industries, 2852 N.W. 31st Ave., Portland 10; Signal Equipment Co., 2706 3rd Ave., Seattle 1.

DUNCAN ELECTRIC MFG. CO., Rte. 52 By-Pass, Lafayette, Ind.—C. C. Blacksmith, P. O. Box 54, Covina, Calif.; Kitchen Electric Supply Co., Box 1831, Reno, Nev.; A & A Supply Co., 114 Morningside N. E., Albuquerque; W. H. Eddy Elec. Products, Inc., Box 1428, Phoenix; Shaffer & Nelson, 1001 S.E. Water Ave., Portland; 312 Occidental Ave., Seattle, and P. O. Box 198 Spokane, 1415 S. Main, Salt Lake City; Hamilton Associates, 1236 Elati St., Denver; Montana Electric Supply, P.O. Box 1317, Billings, Mont.; Artwel Elec., Inc., 1485 Bayshore Blvd., San Francisco.

DUNHAM-BUSH, INC., 179 South St., West Hartford, Conn.—Branch Offices: 1850 Massachusetts Ave., Riverside, Calif.; 2505 West Third St., Los Angeles; 1485 Bayshore Blvd., San Francisco, and 10924 S.W. 59th Ave., Portland.

DUNTON CO., THE M. W., 7 Goff St., Providence, R. I.—Claude Michael Agency, 703 W. Ivy, Glendale 4, Calif.; Toole & Cunningham, 2845 Walnut St., Denver; Carlos W. Stone Co., 2003 Parley's Canyon Blvd., Salt Lake City.

DUPONT, E. I. DE NEMOURS & CO., Wilmington, Del.—Offices in principal cities. Tri-State Supply Corp., San Francisco, Los Angeles, Seattle.

DURA ELECTRIC LAMP CO., INC., 64 E. Bigelow St., Newark, N. J.—Eckert-Lloyd Co., 1950 Naomi Ave., Los Angeles; 1225 6th St., San Francisco.

DURAKOOL, INC., 1010 N. Main St., Elkhart, Ind.—R. Muessdorffer, 8468 Melrose, Los Angeles. Distributor; Fisher Switches, Inc., 40 Gough St., San Francisco; Andrews Hardware & Metal, 334 South Main, Los Angeles 13.

DURO FITTINGS CO., 2210 S. Davie Ave., Los Angeles, Calif.—Branch: 2032 S. Santa Fe Ave., Los Angeles 21; 875 Folsom S., San Francisco; C. D. Belt & Co., 2149 So. Clermont, Denver 22; J. R. Christensen, 247 East 5th South St., Salt Lake City; Guenther-Tate Agency, 79 S.E. Taylor, Portland 14, and 825 Taylor Ave., Seattle.

DURO-TEST CORP., 2321 Hudson Blvd., North Bergen, N. J.—S. A. Goff, 1480 Egbert St., San Francisco, 607 So. Hill St., Los Angeles. Branch Offices: Seattle, Portland, Spokane, Salt Lake City, Phoenix, San Diego.

DYMO CORP., 2546 Tenth St., Berkeley 10, Calif.—San Francisco: Electrical Specialty Co., 158 11th St.; Incandescent Supply Co., 647 Mission St.; Phillips & Edwards Elec. Corp., 265 Vermont St.; Insulation & Wires, Inc., 310 Shaw Road, South San Francisco. Los Angeles: California Wholesale Elec. Co., 2548 Yates Ave.; Electrical Specialty Co., 2820 E. 12th St.; Insulation & Wires, Inc., 6415 E. Fleet; Electrical Dist. Co., 1530 E. Washington; Electrical Specialty Co., 916 W. Adams, Phoenix; Western Elec. Dist. Co., 550 Evans Ave., Reno; H & E Elec. Supply Co., 110 N. Main St., Carlsbad, N. M.; Eoff Elec. Co., 556 Charnelton St., Eugene, 509 N. W. 10th Ave., Portland, and 156 N. Front St., Salem; Bean Elec. Co., 2222 Everett Ave., Everett, Wash.; Electric Specialty Co., 2406 First Ave., Seattle; Love Electric Co., 1914 Market St., Tacoma; Incandescent Supply, 906 "N" St., Fresno, Calif.; State Electric Supply, 1024 First St., N.W., Albuquerque; Gaines Elec. Supply, 1064 E. Anaheim St., Long Beach; American Electronic Supply, 567 South Fairfax, Los Angeles; United Elec. Supply, 117 W. South St., Salt Lake City; Western Elec. Dist. Co., 550 Evans Ave., Las Vegas, Nev.; Glendive Carb. & Elec., 130 S. Douglas St., Glendive, Mont.; National Elec. Supply, 611 Kiiaumoku St., Honolulu; Nonlulu Elec. Products, Box 459, Honolulu.

DYNAMATIC DIVISION, Eaton Mfg. Co., 3122 14th Ave., Kenosha, Wis.—T. C. Caskey, 2200 First Ave. So., Seattle 4; Donal Co., P. O. Box 7013, Portland 19; Shaw Engineering Sales, P. O. Box 590, Pasadena 1; G. M. Wallace & Co., 324 Denham Bldg., Denver 2, P. O. Box 208, Butte, Mont., and Continental Bank Bldg., Salt Lake City; Branch at 1485 Bayshore, San Francisco.

E J S CORP., 921 E. Pico Blvd., Los Angeles, Calif.—Marc Marcus, 921 E. Pico Blvd., Los Angeles; L. M. Baxter Co., 1238 N.W. Glisan, Portland.

E T C CORP., 990 E. 67th St., Cleveland, Ohio—Pacific Elec. Sales Co., 140 S. E. 28th Ave., Portland.

EAGLE ELECTRIC MFG. CO., INC., 23-10 Bridge Plaza South, Long Island City, N. Y.—M. Levin, 205 N.W. Tenth Ave., Portland; Brill Electric Sales, 123 Kansas St., San Francisco 3; Robert B. Focht, 432 Colyton St., Los Angeles; Fred E. Staible & Sons, 2046 Arapahoe St., Denver; Southwestern Sales Co., 6218 W. Indianola, Glendale, Ariz.

EAGLE MFG. CO., 3508 Avalon Blvd., Los Angeles 11, Calif.; R. W. Patton, 444 Dexter Horton Bldg., Seattle 4; M. A. Wagner, 1075 Broadway, Belmont, Calif.; George E. Metcalf, 232 E. 20th Ave., Denver 5.

EAGLE SIGNAL CORPORATION, 202 20th St., Moline, Ill.—Bernard S. Hundley, 3282 Fletcher Drive, Los Angeles 65; Peterson Co., 4949 Colorado Blvd., Denver 16.

EASTERN SPECIALTY CO., 3617 N. 8th St., Philadelphia, Pa.—Best Linemen's Supply Corp., 541 First Ave. So., Seattle 4; C. C. Blacksmith, P. O. Box 54, Covina, Calif.; Sales Engineers, Inc., 211 Wazee Market, Denver; W. G. Mills, So. 1206 McClellan St., Spokane; A & A Supply Co., 114 Morningside, N.E., Albuquerque.

EATON MFG. CO., Reliance Div., 25 Charles Ave., S. E., Massillon, Ohio—Hobelmann & Co., 225 Kansas St., San Francisco; Grether & Grether, P. O. Box 47, Stockton, Calif., and P. O. Box 1036, Whittier, Calif.

EBY INC., HUGH H.—J. W. Marsh, 4216 Jefferson Blvd., Los Angeles 16; 1258 Fitzgerald Ave., San Francisco; 305 East Indian School Road, Phoenix.

ECONOLITE CORP., 8900 Bellanca Ave., Los Angeles, Calif.—Branch Offices: 389 Clementina, San Francisco; Lloyd Bldg., Seattle.

ECONOMY CABLE GRIP CO., 5 Merritt St., South Norwalk, Conn.—T. A. Ford Co., Inc., 402 Agostino Rd., San Gabriel, Calif.

ECONOMY FUSE DIVISION, Federal Pacific Electric Co., 2717 N. Greenview Ave., Chicago 14, Ill.—Branch offices: 3333 San Fernando Rd., Los Angeles 65; 5835 Third St., San Francisco 24; 338 North State St., Oswego, Ore.; 1415 Elliott Ave. West, Seattle 99, and West 1207 College Ave., Spokane.

ECONOMY TRANSFORMER CO., INC., 1021 North Pearl St., Centralia, Wash.—Arthur & Allen, 420 Market St., San Francisco; Arthur & Kruse, 9593 Garden Grove Blvd., Garden Grove, Calif.; Muth-Richards Co., 1804 Bush Pl.: Seattle 44; Ray E. Wendling, P. O. Box 3721, Phoenix.

EDERER ENGINEERING CO., 2931 First Ave. So., Seattle, Wash.

EDWARDS COMPANY, INC., 90 Connecticut St., Norwalk, Conn.—R. A. Vaill, Western Reg. Mgr., 459 E. 4th St., Los Angeles; M. W. Leighton, 617 7th St., San Francisco; H. F. Ream, 1216 Santa Fe Dr., Denver 4; J. A. Ware, Jr., 721 W. Buchanan St., Phoenix; D. A. King, 1220 S.W. Stark, Portland; F. A. Strohecker, 2207 1st Ave. S., Seattle 4; E. Johnston, 207 Hyde Bldg., Spokane; K. Lagerstrom, P. O. Box 35, Sandy, Utah; Matt Cabot, P. O. Box 3708, Honolulu, Hawaii.

EFFICIENCY ELECTRIC & MFG. CO., Park Ave. Extension, East Palestine, Ohio—Sold through Westinghouse Electric Supply, Graybar and General Electric Supply in all principal cities.

EFCOR—(See Electrical Fittings Corp.)

ELASTIC STOP NUT CORP. OF AMERICA, 2330 Vauxhall Road, Union, N. J.—Collins Powell Co., 9247 Alden Dr., Beverly Hills, Calif.; Gerald R. Moulin, 231 Chesham Way, San Carlos, Calif.—For Elizabeth Div. see under Aga Div.

ELBING ENGRAVERS, 3789 24th St., San Francisco 24, Calif.

ELECTRADIANT CORP., 500 Del Monte Ave., Monterey, Calif.

ELECTRA INSULATION CORP., 33-30 57th St., Woodside, N. Y.—Tri-State Supply Corp. in following cities: 544 S. San Pedro St., Los Angeles; 554 Bryant St., San Francisco; 325 Westlake Ave., North, Seattle.

ELECTRA MOTORS, INC., 1110 N. Lemon St., Anaheim, Calif.—McCarthy-Hood Assoc., 1485 Bayshore Blvd., San Francisco 24; Floyd O. Davis, 2326 E. Henshaw, Phoenix; Hubert Kaub & Co., 1025 Santa Fe Ave., Denver 4; Electra Motors, Inc., 1016 S. Main St., Seattle 4, and 826 S.E. 166th Place, Portland 33; Electrical Sales Co., P. O. Box 49, Salt Lake City; Bitco Pacific Corp., 501 South St., Honolulu; Honolulu Iron Works, 570 Auahi St., Honolulu.

ELECTRAN CO., 4550 N. E. Alberta, Portland, Ore Now Miller Transformer Co.

ELECTREND PRODUCTS CORP., P. O. Box 110, St Joseph, Mich.—Gilson Supply Co., 1148 E. 18th St., Oakland 6; Gilsonite Roof Products Co., 2946 N. E. Columbia Blvd., Portland 11; National Electric Supply Co., No. 1 14th St., San Francisco 3; Hill-Dietrick, P. O. Box 627, 417 E. 10th Ave., Oakland 6; Coast Electric Supply Co., 744 G St., San Diego 12; Electrical Distributing Co., 320 Race St., San Jose; United Builders, Inc., P. O. Box 211 Beaverton, Ore.

ELECTRIC ARC, INC., 152 Jelliff Ave., Newark, N. Y—Lombard Smith Co., 714 W. Olympic Blvd., Los Angeles; Benno Persitz, 114 Garfield, Seattle.

ELECTRIC AUTOLITE CO., P. O. Box 931, Toledo, Ohio—J. M., 505 E. Rosecrans Ave., Gardena, Calif

ELECTRIC CONTROLLER & MFG. DIV. OF SQUARE D CO., 4500 Lee Road, Cleveland 28, Ohio—Branch Offices: 4335 Valley Blvd., Los Angeles 32, and 211 Industrial St., San Francisco.

ELECTRI CORD CO., Sold through General Electric Supply Co., 432 Plane St., Newark, N. J.—Westinghouse Electric Supply Co., and Graybar Elec. Co., all branches.

ELECTRIC DOORMAN CO., 3720 West 54th St., Los Angeles, Calif.

ELECTRIC FISH SCREEN CO., 1130 N. Poinsettia Place, Hollywood 46, Calif.—Direct from manufacturer.

ELECTRIC MACHINERY MFG. CO., 800 Central Ave., Minneapolis, Minn.—Branch Offices: A. C. Petrich, 2603 Western Ave., Seattle; C. H. Newell, East 706 Sprague Ave., Spokane; F. G. Guthrie, 420 Market St., San Francisco; W. C. King, P. O. Box 58213, Los Angeles; M. G. Mueller, 1644 Blake St., Denver; C. W. Silver, 550 W. 7th South St., Salt Lake City; J. E. Redmond, 625 W. Madison St., Phoenix; F. C. Bolton, 926 East Hastings St., Vancouver, B. C.

ELECTRIC PRODUCTS CO., 1725 Clarkstone Road, Cleveland 12, Ohio—Hubert Kaub & Co., 1025 Santa Fe Dr., Denver, and P. O. Box 49 Sugarhouse Sta., Salt Lake City; McCarthy-Hood & Assoc., 1485 Bayshore Blvd., San Francisco; Joe Davidson & Assoc., P. O. Box 108, South Gate, Los Angeles; W. G. Ballantyne, 3707 S.W. 52nd Place, Portland.

ELECTRIC REGULATOR CORP., Pearl St., Norwalk Conn.—Halbar Associates, 1001 Glendale Blvd., Los Angeles; Harold Wells, 420 Market St., San Francisco.

ELECTRIC SOLDERING IRON CO. INC., 1760 West Elm St., Deep River, Conn.—J. H. Kay Agency, 713 E. 3rd St., Los Angeles 13.

ELECTRIC STORAGE BATTERY CO., 42 So. 15th St., Philadelphia 2, Pa.—Branch Offices: 1043 S. Grand Ave., Los Angeles 15; 6150 Third St., San Francisco; 1919 Smith Tower Bldg., Seattle; 810 14th St., Denver 2.

ELECTRIC SPRAYIT DIVISION THOMAS INDUSTRIES, INC.—(See Thomas Industries Inc.

ELECTRIC SWITCH CORP., 2320 S. Tibbs Ave., Indianapolis, Ind.—Belchamber & French, 1845 Bayshore Blvd. San Francisco; A. W. Nash Co., 2112 S. Atlantic Blvd., Los Angeles 22; James L. Kearns Co. Inc., 6055 N.E. Glisan St., Portland 13.

ELECTRIC TERMINAL CORP., Warwick Industrial Park, Providence 5, R. I.—Montgomery Bros., Inc., 4800 District Blvd., Los Angeles, 1122 Howard St., San Francisco, 1632 N. W. Johnson St., Portland, and 911 Western Ave., Seattle.

ELECTRIC TIME COMPANY, INC., 16 Union St., Natick, Mass.—Harry F. Ream Sales Agency, 1216 Santa Fe Dr., Denver 4; F. A. Strohecker, 2207 First Ave., South, Seattle; Burt Schwartz, 1765 30th St., San Diego 2; Keith Lagerstrom, P. O. Box 35, Sandy, Utah; Matt Cabot & Associates, Box 3708, Honolulu 11.

ELECTRIC TUBE PRODUCTS, INC., 74-16 Grand Ave., Maspeth, N. Y.—Weingart & Lustig, 1567 East 25th St., Los Angeles; Pacific Elec. Sales, 140 S. E. 28th Ave., Portland.

ELECTRICAL ENGINEERING & MFG. CORP., 4612 W. Jefferson Blvd., Los Angeles 16—Branches: Oakland, San Francisco, Phoenix.

ELECTRICAL ENGINEERS EQUIPMENT CO. — (See Three E's)

ELECTRICAL FITTINGS CORP., 37-50 57th St., Woodside, N. Y.—Branch Office: Robert F. Prussia, Mgr., 922 S. Hollenbeck, W. Covina, Calif. Agents: Bruce-Emmett Co., 830 S.E. Alder, Portland 14; 1016 1st Ave. So., Seattle 4; 12103 E. Boone, Spokane 67, and 410 Wall St., Salt Lake City 16; W. B. Imholt Co., 275 Brannan St., San Francisco; Payne & Sloan, Inc., 1101 E. 5th St., Los Angeles, and 3042 W. Pierce St., Phoenix; L. S. Reed & Co., 1018 Lawrence St., Denver 4.

ELECTRICAL REFRACTORIES CO., East Clark St., East Palestine, Ohio—E. A. Wilcox Co., 173 Utah Ave. So., San Francisco 3, and 915 Arctic Bldg., Seattle 4.

ELECTRICAL SERVICE CO., P. O. Box 1039, Greenville, Texas—H. J. Randolph, 12202 East Garvey Ave., El Monte, Calif., and 1209 N. First St., Phoenix, Ariz.; Oliver B. Lyman, 55 New Montgomery St., San Francisco; J. A. Tudor & Associates, Inc., 1004 S.E. Belmont St., Portland 4.

ELECTRICAL UTILITIES CO., 2429 St. Vincent Ave., La Salle 16, Ill.—W. E. Kirk Co., 415 Wall St., Los Angeles 13; Jos. C. Platt, 111 Bell St., Seattle.

ELECTRIDUCT & FLEXIDUCT, 615 S. 2nd St., Laramie, Wyo.— Arthur & Allen. 420 Market St., San Francisco; Krause Engineering, 741 E. Artesia, Long Beach, Calif.

ELECTRI-FLEX CO., 7 S. Roselle Rd., Roselle, Ill.—Staible & Sons, 2046 Arapahoe, Denver; Paul D. Jacobs, 420 Market St., San Francisco; John M. Finke, 1848 N. Main St., Los Angeles 31.

ELECTRO CAPACITORS CO., 10132 Edes Ave., Oakland 3, Calif.—H. G. Rising Co., 151 N. Vermont Ave., Los Angeles 4; C. E. Riggs, Inc., 422 N.W. 8th, Portland and 408 Occidental, Seattle.

ELECTRO COMPOUND CO., 4145 W. 150th St., Cleveland, Ohio—Oregon Mfg. Agents, 317 S. W. Front Ave., Portland; W. E. Starr & Co., 926 South Atlantic Blvd., Los Angeles 22; Electric Sales Co., 2445 Clement St., San Francisco 21; Strong & Humphrey, 110 Yuma, Denver 23, Colo.

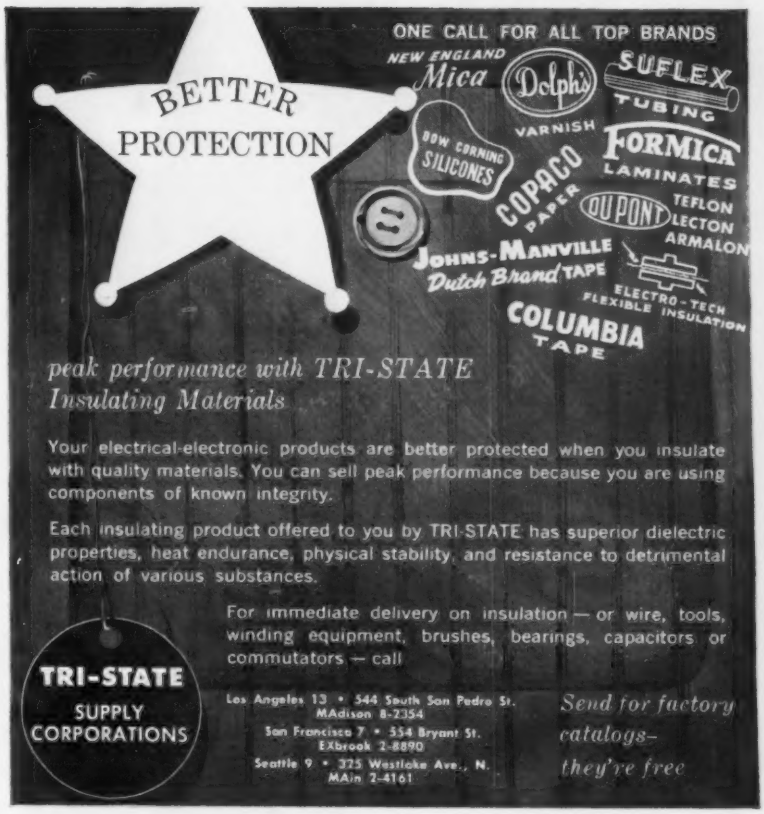
ELECTRO DYNAMICS DIV. of General Dynamics Corp., 163 Avenue A, Bayonne, N. J.—Branch Offices: 2627 San Fernando Rd., Los Angeles; 383 Brannan St., San Francisco and 1731 1st Ave. South, Seattle; Vincent McCrann, 3605 N.E. 16th Ave., Portland; R. E. Tweedy, 356 E. Alvarado St., Phoenix; Stuart Electric, 13 E. 15th St., So., Salt Lake City; W. A. Lefler, 108 N. 23rd St., Billings.

ELECTRO ENGINEERING WORKS, 401 Preda St., San Leandro, Calif.

ELECTRO LIFT, INC., 204 Sargeant Ave., Clifton, N. J.—Irving G. King & Co., 821 Mateo St., Los Angeles 21; Robert M. Taylor Co., 268 Market St., San Francisco 11.

ELECTRO LIGHTING CORP., 1535 S. Paulina, Chicago 8, Ill.— Frank H. Bran Co., 607 E. 6th St. Los Angeles 21; A. R. Parker Co., 420 Market St., San Francisco; Gregg N. Cioos, 977 Jackson, Denver; Barney H. Hartley, 708 W. Willetta, Phoenix.

ELECTRO MECHANISM CO., Fullerton, Calif.—Artwel, Inc., 1485 Bayshore Blvd., San Francisco.



ELECTROMODE, Division Comercial Controls, 570 Culver Rd., Rochester N. Y.—J. E. Shull & Son, 3601 Whittier Blvd., Los Angeles 23; R. C. Boscoe Sales Co., 500 Wall St., Suite 211, Seattle 1, c/o M. A. Stensen, 1211 Academy St., Belmont, Calif.; George Miller, 2601 W. 37th Ave., Denver 11.

ELECTRO-MOTIVE DIV., GENERAL MOTORS CORP., La Grange, Ill.—Branch Offices: Russ Bldg., San Francisco, and 5928 South Malt Ave., Los Angeles.

ELECTRO PRODUCTS MFG. CO., 8310 N. E. Highway 99, Vancouver, Wash.

ELECTRO RAY MFG. CO., 8310 N.E. Highway 99, Vnacouver, Wash.—Branch Office: 366-55 Mulberry Ave., Newark, Calif.; 1565 6th South, Seattle, 2309 North Wall, Spokane, 8310 N.E. Highway 99, Vancouver, Wash., 7514½ E. Newmark Ave., South San Gabriel, Calif.; Southwest Sales, 1620 E. Earll Dr., Phoenix; Alaska Heating Co., 1398 Birchwood, Anchorage, Alaska.

ELECTRO RUST-PROOFING CORP., 30 Main St., Belleville, N. J.—Electro Rust-Proofing Corp., 1713 S. California, Monrovia, Calif.; 2180 Palou St., San Francisco, and 2916 Western Ave., Seattle.

ELECTRO SNAP CORP., 4218 W. Lake St., Chicago, Ill.—(See Control Switch Div.)

ELECTRO SWITCH CORP., King Street, Weymouth 88, Mass.—Michel Bros., 1413 East 20th, Los Angeles; Jack Kaufman, 126 - 25th Ave., San Mateo, Calif.; Carlson Sales, Inc., 1201 Dexter Ave., Seattle; 935 N. W. 12th Ave., Portland, and 604 Utah Ave., Butte, Mont.

ELECTRO SWITCH & CONTROLS, INC., 5757 Camille Ave., Culver City, Calif.

ELECTRO-THERM, INC., 931 Selim Road, Silver Spring, Md.—R. A. Russell, 2314 Duane St., Los Angeles; D. A. Quinn, 9320 S.E. Shoreland Dr., Bellevue, Wash.

ELECTROVECTOR, 475 Flushing Ave., Brooklyn 5, N. Y.—C. A. Peterson Co., 782 E. 14th Place, Los Angeles; Bland Simmons, 4350 S. W. 86th Ave., Portland; Ken Nichols, 411 S. 121st St., Tacoma, Wash.; Don McGrady, North 4212 Whitehouse, Spokane.

ELECTRO-VOICE, INC., Carroll and Cecil Sts., Buchanan, Mich.—Wm. Lanphear Co., 3215 Western, Seattle; McLoud & Raymond, 5528 E. Colfax Ave., Denver 20; Meyer & Ross, 113 10th St., San Francisco; I. R. Stern, 4109 Burbank Rd., Burbank, Calif.

ELECTRON CORP., 663 Rio Grande, Littleton, Colo.

ELECTRONIC CONTRACTORS, INC., 2101 S. E. 6th St., Portland, Ore.

ELECTRONICS DEVICES, INC., 429 12th St., Brooklyn 15, N. Y.—Barstow & Doran, Inc., 1406 S. Grand Ave., Los Angeles 15; William V. Brainard, 535 Middlefield Road, Palo Alto, Calif.; Don Smith Sales Co., 2204 N. 45th St., Seattle 3; A. J. Nelson Co., P. O. Box 5502, Denver 17.

ELECTRONIC TUBE CORP., 1200 E. Mermaid Lane, Philadelphia, Pa.—Kittleson Co., 416 North La Brea Ave., Los Angeles 36; 809 San Antonio Road, Palo Alto, Calif.; Box 803, Alamogardo, N. M.; Don Smith Sales Co., 2320 N. 45th St., Seattle.

ELITE GLASS CO. INC., 111 W. 22nd St., New York City 11—Bach Associates, 191 Oneida St., Denver.

ELLIOTT CO., N. Fourth St., Jeannette, Pa.—Branch Offices: H. P. Hostetter, Mgr., 2350 Equitable Life Bldg., San Francisco 4; V. A. Peterson, Mgr., 714 W. Olympic Blvd., Los Angeles 15; H. R. Bushley, Mgr., 1101 Vance Bldg., Seattle 1; J. H. Petersen, Mgr., 306 Union National Bank Bldg., Denver 3; William Nibley, Mgr., 73 S. Main St., Salt Lake City 11; Crocker Wheeler Motor line distributed by leading distributors in all principal cities.

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ELLIOTT MFG. CO., B. W., 252 Prospect Ave., Binghamton, N. Y.—Milligan Spika Co., 1485 Bayshore San Francisco; M. R. Pett, 5421 Vista Del Arroyo Dr., La Crescenta, Calif.

ELRECO CORPORATION, 2900 Cormany St., Cincinnati 25, Ohio—J. W. Watkins, 645 Skinner Bldg., Seattle 1; Union Supply Co., Box 6735, Stockyards Sta., Denver 16; Carlsbad Supply Co., 501 Park Dr., Carlsbad, N. M.; Sales Eng. Co., 526 W. 8th St., Salt Lake City; Ralph B. Black, 1921 Blake St., Denver 2.

ELTON CONNECTOR CORP., 35-20 Borden Ave., Long Island City 1, N. Y.—Suchman Associates, 837 East 4th Place, Los Angeles 13.

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EMBLEM TAPE & LABEL CO., 1414 Blake St., Denver, Colo.—Branch Office: 413 State Ave. N. W., Albuquerque.

EMERSON ELECTRIC MFG. CO., 8100 Florissant Ave., St. Louis 21, Mo.—West Coast States; Emerson-Pryne Co., 206 N. Towne Ave., Pomona, Calif.; 526 E. 12th, Los Angeles; 1315 Howard St., San Francisco.

EMERSON-IMPERIAL, Loyalhanna Park, Latrobe, Penna.—Norwest Co., 210 N. 36th St., Seattle; W. Cress Co., 201 Concord Bldg., Portland; O. G. Binswanger, 1513 South 16th East, Salt Lake City; Doug Simmons, 2955 Jackson St., San Francisco; Darrell Haye, 14919 Templar Dr., La Mirada, Calif.; Bill Armstrong, % Hawaiian Light & Supply, Honolulu, Hawaii.

EMERSON-PRYNE CO., 206 N. Towne Ave., Pomona, Calif.—Branch Offices:1315 Howard St., San Francisco 3; 526 E. 12th St., Los Angeles; W. H. Cress Co., Concord Bldg., Portland 4; John W. Reynolds Co., 1481 S. Main St., Salt Lake City; Gaer Sales, 1223 Quivas St., Denver; Gordon W. Laursen & Sons, 1116 Dartmouth Dr. N. E., Albuquerque; Norwest Co., 330 2nd Ave. W., Seattle; Jerry Redburn, 2841 E. Osborn, Phoenix; Cochrane-Stephenson (Western), Ltd., 1324 Franklin St., Vancouver, B. C.

EMPIRE CORP., 1566 South 83rd St., Milwaukee, Wis.—Nourse Equip. Co., 2300 Fourth St., Berkeley, Calif.; A. J. Nelson Co., P. O. Box 5502, Denver; Ed. Warburg Co. Inc., 1207 East 8th St., Los Angeles.

EMPIRE DEVICES PROD. CORP., 37 Prospect St., Amsterdam, N. Y.—G. M. Gillett, 4621 7th Ave., South, Seattle 8; Carl A. Stone Assoc., Inc., 8971 National Blvd., Los Angeles 34; White and Co., 788 Mayview Ave., Palo Alto, Calif.; Williams & Assoc., Inc., 2261 S. Albion St., Denver 22, 3221 Silver S.E., Albuquerque, and 320 E. 4th St. S., Salt Lake City.

EMPIRE METAL PRODUCTS CO., 5543 West Roosevelt Road, Chicago 50, Ill. — Sherman-Mitchell & Co., P.O. Box 49797, Los Angeles 49; Hamilton Associates, 1236 Elati St., Denver 4.

ENDUR PRODUCTS CO., 721 Goshen Ave., Visalia, Calif.—Pacific Industries, 8255 Beverly Blvd., Los Angeles 48.

ENGINEERING ENTERPRISES, INC., 702 West 5th St., Charlotte, N. C.—Pacific Utilities Supply Co., 141 King St., San Francisco.

ENJAY BUTYL CO., 15 West 51st St., New York City—Branch: 3325 Wilshire Blvd., Los Angeles.

ERASER CO. INC., 1060 S. Clinton St., Syracuse 4, New York—Phil Heckendorn, 803 Houseman Ave., LaCanada, Calif.

ERICO PRODUCTS, INC., 2070 E. 61st Pl., Cleveland, Ohio — Erico Products, Inc., 9771 Oma Place, Garden Grove, Calif. Distributors: Calif. Wholesale Elec. Co., 2548 Yates Ave.; Los Angeles; Martin Supply Co., 2100 S. San Pedro, Los Angeles; Pacific Utilities Supply Co., 141 King St., San Francisco; Landes, Zachary & Peterson, 601 S. Jason St., Denver 23; Cascade Distributors, 1918 1st Ave. S., Seattle 4, and 1321 W. 2nd Ave., Spokane; Western Specialty Co., 2200 W. Willetta St., Phoenix.

ERICSON MFG. CO., THE, 1660 Hayden Ave., Cleveland, Ohio—Suchman and Associates, 837 E. 4th Place, Los Angeles 13; Guenther & Tate, 825 Taylor Ave., Seattle 9.

ERICSSON CORP., 102 Park Ave., New York City, N. Y.—Calrepco, 1417 Georgia St., Los Angeles.

ERIE BOLT & NUT CO., Erie, Pa.—Branch Offices: 4000 York St., Denver 5, 3342 Del Rio Rd. S. W., Albuquerque, 309 S. W. Third Ave., Portland 4, 2520 S. State St., Salt Lake City, Room 200, Prefontaine Bldg., Seattle. Maydwell & Hartzell, Inc., in following cities: 870 Tennessee St., San Francisco, 427 W. 5th St., Los Angeles 13, 5823 Henley Dr., San Diego, and 120 S. 29th St., Phoenix.

ERIE ELECTRIC CO., INC., 120 Church St., Buffalo 2, N. Y.—R. W. Peterson, 103 N. Santa Anita, Arcadia, Calif.

ERIE RESISTOR CORP., 644 W. 12th St., Erie, Pa.—Allen I. Williams Co., 124 W. 12th Ave., Denver; David H. Ross Co., 534 El Camino Real, San Carlos, Calif.; George Osborn, 12932 S. Weber Way, Hawthorne, Calif.

ESCO MFG. CO., P. O. Box 1039, Greenville, Texas —Randolph Eng. Corp., 12202 E. Garvey Blvd., El Monte, Calif., and 1029 N. 1st St., Phoenix; Oliver B. Lyman Co., 55 New Montgomery St., San Francisco; Muth-Richards Co., 1804 Bush Pl., Seattle; M. A. Collins Co., P. O. Box 207, Vancouver, Wash.; Gregg N. Cloos Co., 977 Jackson St., Denver.

ESS INSTRUMENT CO., 96 S. Washington Ave., Bergenfield, N. J.—Landes, Zachary & Peterson, 153½ W. 2nd S., Salt Lake City, and 275 Kalamath St., Denver 23; David A. Darling, 850 West Hastings St., Vancouver, B. C.; Crown Engineering Co., 113 S. Alvarado St., Los Angeles 57; Stillson Associates, 33 Meadowpart Ct., Orinda, Calif.; Sight and Sound, 4325 S. W. 96th Ave., Beaverton, Ore.; John Williams Co., 766 Dexter Horton Bldg., Seattle 4.

ESSEX WIRE CORPORATION, Fort Wayne, Ind. — Factory at Anaheim, Calif. Branch Offices: 274 Harbor Way, San Francisco; 6415 E. Fleet St., Los Angeles; 213 N. First Ave., Phoenix; 1231 N.W. Hoyt St., Portland.

ESSEX WIRE CORP. OF CALIF., Anaheim, Calif. — District Offices and Warehouses: 274 Harbor Way, San Francisco; 6415 E. Fleet St., Los Angeles; 1231 N. W. Hoyt St., Portland.

ESSICK MFG. CO., 1950 Santa Fe Ave., Los Angeles, Calif.—Eric F. Chemnitz, 1096 Yerba Buena Ave., Emeryville, Calif.; Edgar G. Hansen, 630 Security Bldg., Phoenix; A. B. Cline, 1227 South 13th East, Salt Lake City; William H. Fuller, 1038 Palm Ave., Whittier, Calif.; Hardesty-Favero & Co., Inc., 1731 1st Ave. S., Seattle; E. P. Murr, 2542 W. 28th Ave., Denver; J. O. Pike, 3813 Hillcrest Ave., El Paso, Texas.

ESTERLINE-ANGUS, INC., P. O. Box 596, Indianapolis, Ind. — T. R. Routh Co., 1209 Capuchino Ave., Burlingame, Calif.; J. E. Redmond Supply Co., P. O. Box 869, Phoenix; Brenner-Fiedler & Associates, 7563 Melrose Ave., Los Angeles; Mt. States Machinery Co., 1526 Blake St., Denver 2; Shaffer & Nelson, Inc., W. 1835 Broadway, Spokane 10, 312 Occidental Ave., Seattle 4, 1001 S.E. Water Ave., Portland 14, and 1415 So. Main St., Salt Lake City 15.

ETC INCORPORATED, 990 E. 67th St., Cleveland 3, Ohio—Electrical Specialty Co., 158-168 Eleventh St., San Francisco, 2820 E. 12th St., Los Angeles, 2026 Arapahoe St., Denver, 2442 First Ave. So., Seattle, 1822 N.W. 25th Ave., Portland, and P. O. Box 232, Phoenix.

ETTCO WIRE & CABLE CORP., 75 Onderdonk Ave., Brooklyn, N. Y. —The McLoughlin Co., 811 E. 14th Place, Los Angeles; Keeler-White Co., 615 7th St., San Francisco; Smith & Thomas, 568 First Ave. So., Seattle.

EUCLID ELECTRIC & MFG. CO., 50 Edwards St., Madison, Ohio—Representatives: P. J. Burrill, 2131 Washington Ave., San Leandro, Calif.; A. W. Nash Co., 2112 South Atlantic Blvd., Los Angeles 22. Star Machinery, 241 Lander St., Seattle 4 and 3325 N.W. Yeon Ave., Portland; TMT Associates, Inc., 442 University Blvd., Denver; Central Station Equip. Co., 2323 Aviation Highway, Tucson, Ariz.; Distributors: Rundel Electric Co., 230 Adrian Rd., Milbrae, Calif.; General Electric Supply, P. O. Box 2859, Terminal Annex, Los Angeles; H. G. Rising Co., 141 N. Vermont Ave., Los Angeles; Ind. Elec. Service Co., 319 South I St., Aberdeen, Wash.

EUTECTIC WELDING ALLOYS CORP., 40-40 172nd St., Flushing, N. Y.—Training Centers: 2712 Second Ave., Seattle 1; 5348 Jillson St., Los Angeles 22; 1108 Blake St., Berkeley 2; 1402-1414 S. 7th St., Phoenix; 540 Cooke St., Honolulu 13.

EVERHOT MFG. CO., 57 S. 19th Ave., Maywood, Ill.—Los Angeles Stam & Stay. Co., 1500 S. Los Angeles St., Los Angeles; Patrick & Co., 560 Market St., San Francisco 4; C. O. Armstrong, 267 12th St., Oakland 7; Tacoma Rubber Stamp Co., 933 Commerce, Tacoma, Wash.

EVERLEY COMPANY, PAUL S., 550 9th St., San Francisco, Calif.

EVERSON ELECTRIC CO., 1126 Union Blvd., Allentown, Pa.—E. M. Schwem, 5313 S. Wilton Pl., Los Angeles 62.

EVERSTICK ANCHOR CO., 9th and Kirkwood St., Fairfield, Iowa—Joslyn Pacific Co., San Francisco Los Angeles, Seattle and Portland; Graybar Electric Co., Inc., San Francisco, Sacramento, Phoenix and Denver; Westinghouse Electric Supply Co., and General Electric Supply Co., all principal cities; Paul A. Douden Co., and Hendrie & Bolthoff, Denver. (See ad, p. 26)

EVERWARM, INC., 3600 Pleasant Ridge, Knoxville 16, Tenn.—Sheeter Co., 2508 W. 6th, Los Angeles.

EXCEL ELECTRIC SERVICE CO., 2113 South Western Ave., Chicago 8, Ill.—Brenner-Fiedler & Assoc. 7563 Melrose Ave., Los Angeles; T. R. Routh Co. 1209 Capuchino Ave., Burlingame, Calif.

EXECUTONE, INC., 415 Lexington Ave., New York City—Executone Southern California Corp., 1136 Fair Oaks Ave., South Pasadena, Calif.; Executone Company of Northern California, 455 Ellis St., San Francisco 2; Executive Systems Co., 222 S. W. Main St., Portland 4; 3230 Western Ave., Seattle 1; 154 S. Browne St., Spokane; P. O. Box 1849, Phoenix; 2601 E. 3rd Ave., Denver, and P. O. Box 96, Idaho Falls, Idaho.

FAIRFIELD INDUSTRIES, West Passaic Ave., Caldwell, N. J.—Rutkin Electrical Sales, 744 Kohler St., Los Angeles.

FALCON EQUIPMENT CO., P. O. Box 255-E, New Brighton, Pa.—Montgomery Brothers Inc., in following cities: 1122 Howard St., San Francisco; 1632 N.W. Johnson, Portland; 911 Western Ave., Seattle, and 4800 District Blvd., Los Angeles; 5103 N. Hawthorne, Spokane.

FANNER MANUFACTURING CO., Brookside Park Cleveland, Ohio—A. L. Polich, Inc., 734 N. W. Glisan St., Portland, and 7511 44th Ave., S.W., Seattle 16; Slaybaugh-Thompson Co., 100 W. 13th Ave., Denver; Smith Sales Co., 1801 Somervell N.E., Albuquerque. Maydwell & Hartzell, Inc., in following cities: 870 Tennessee St., San Francisco 7, 427 W. 5th St., Los Angeles 13, 5823 Henley Dr., San Diego, 120 S. 29th St., Phoenix, 2318 N. W. Vaughn St., Portland, 803 W. Jackson, Medford, 306 Dexter Ave., Seattle 9, 121 S. Monroe St., Spokane 8, and 110 East 6th, Tucson.

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FARGO MFG. CO., INC., 845 Main St., Poughkeepsie, N. Y.—Distributed by Line Material Industries, 7105 S. Paramount Blvd., Pico-Rivera, Calif.; 5108 E. 39th Ave., Denver; 1333 N.W. 12th Ave., Portland; East 3303 Ferry St., Spokane; 1220 West Nickerson St., Seattle 99; 980 S. 6th West St., Salt Lake City; 360 Shaw Rd., So. San Francisco Calif.; J. E. Redmond, 625 W. Madison St., Phoenix; El Paso Saw & Belting Co., 1701 Texas St. El Paso. (See ad, p. 27)

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(See listing sales offices page 26)

FARIES DIV.—(See Fostoria Corp.)

FARNAM MFG. CO. INC., Sweeten Crk. Rd., Asheville, N. C.—E. A. Wilcox Co., 173 Utah Ave. So. San Francisco.

FARVAL DIVISION OF EATON MFG. CO., 3300 East 80th St., Cleveland 4, Ohio—Branch: 1485 Bayshore Blvd., San Francisco.

FAST & CO., JOHN E., 3580 N. Elston Ave., Chicago 18, Ill.—W. S. Harmon Co., 121 N. Robertson Blvd., Beverly Hills, Calif.; C. F. L. Co., 1871 S. Broadway, Denver 10; Shefler-Kahn, 240 South 1st Ave., Phoenix; Long & Associates, Redwood City, Calif.

FASTENER PRODUCTS CORP., 3766 River Road, Franklin Park, Ill.—Northwest Sales & Engineering, 420 Market St., San Francisco and Terminal Sales Bldg., Seattle 1.

FAST-LOK MFG. CO., 67 Ash St., Bridgeport, Conn—Walter E. Wallace Co., 435 Bryant St., San Francisco; John Allen Ware & Associates, 301 West G St., San Diego; Gregg N. Cloos Co., 1232 Santa Fe Dr., Denver 4; Jim Shirreffs Co., 3601 So Broadway, Los Angeles 7.

FEDDERS CORP., 58-01 Grand Ave., Maspeth 78 New York—Refrigerative Supply, Inc., 619 S.E Sixth Ave., Portland 14; Armstrong Supply, 1948 S.W. Temple, Salt Lake City; Air Conditioning Dist., 1516 N. 7th Ave., Phoenix and 727 N Main St., Las Vegas, Nev.; H. R. Basford Co., 235 15th St., San Francisco 3 and 3320 Leonis Blvd., Los Angeles 25; Air Purification, 4775 Fox St., Denver 16.

FEDERAL LIGHTING CORP., 1425 Rockwell Ave., Cleveland, Ohio—C. B. Gratiot Co., 1282 Folsom St., San Francisco; Smith & Thomas Co., 5417 E. Marginal Way, Seattle 4.

FEDERAL PACIFIC ELECTRIC CO., 50 Paris St., Newark 1, N. J.—North Pacific Region: R. L. Lemman, Manager, 5835 Third St., San Francisco. Branch Offices: 5835 Third St., San Francisco; 1415 Elliott Ave. West, Seattle; 338 N. State St., Oswego, Ore.; W. 1207 College Ave., Spokane, Wash. South Pacific Region: Frank Weber, Manager, 3333 San Fernando Road, Los Angeles. Branch Offices: 3333 San Fernando Road, Los Angeles; 106 Pierce St., Phoenix. Agents: M. Swendson, First National Bldg., Boise, Idaho; F. W. Gorman, Inc., 1330 N. 13th St., Albuquerque, N. M.; and 1710 Texas St., El Paso, Texas; Electrical Engineering and Sales Corp., 2030 Texas St., El Paso, Texas; James E. Stephens Co., 49 North 2nd West St., Salt Lake City, Utah; Hamilton Asso., 1236 Elati St., Denver, Colo, and R. D. Florance & Asso., 2052 Humboldt St., Denver, Colo.

FEDERAL SIGN & SIGNAL CORP., 136th and Western Ave., Blue Island, Ill.—F. M. Nicholas Co., 72 Townsend St., San Francisco; Bruce-Emmett Co., 1016 1st Ave. So., Seattle, and 830 S.E. Alder St., Portland; Gregg N. Cloos, 977 Jackson St., Denver; Payne & Sloan, Inc., 1101 E. 5th St., Los Angeles 13.

FEDERAL TELEPHONE AND RADIO CORP., 100 Kingsland Road, Clifton, N. J. — Branch Office: 15191 Bledsoe St., San Fernando.

FEDERATED METALS DIV., AMERICAN SMELTING AND REFINING CO., 120 Broadway, New York City 5, N. Y.—Sales Offices: 4010 E. 26th St., Los Angeles; 1900 N. W. 18th Ave., Portland 9; 700 Crandall Bldg., Salt Lake City 1; 101 Dakota St., Seattle 4, and 1901 Army St., San Francisco 24.

FEEDRAIL CORPORATION, 125 Barclay St., New York, N. Y.—Allied Industries, 412 Seaton St., Los Angeles 13; William R. Dunn, 55 New Montgomery St., San Francisco 5; T. J. Vieau & Associates, 1871 S. Broadway, Denver 10; James D. Stephens Co., P. O. Box FG 123, Salt Lake City 1; E. A. Will, 534 First Ave. So., Seattle 4.

FELDMAN CO., 612 So. Wall St., Los Angeles 14, Calif.—Gerald Steinacher, 384 Solana Dr., Los Altos, Calif.; Leonard Robin, 1481 Alvira, Los Angeles; Herb Beatus, 13444 Crewe St., Van Nuys, Calif.; David Bloomfield, 530 Olympic Pl., Seattle; Harry Adelman, 450 S. Rexford Dr., Beverly Hills, Calif.; B. A. Zall, 13903 La Maida, Van Nuys, Calif.; Francis O'Donald, 5410 Russell, Los Angeles 27; John Koper, 1532 N. Bromley, La Puente, Calif.

FEMCO, INC., Irwin, Pa.—Branch Office: 2640 Broderick Ave., Duarte, Calif.; Industrial Physics & Electronics Co., 470 S. Tenth East St., Salt Lake City.

FENWAL INCORPORATED, Pleasant St., Ashland, Mass. — Branch Office: 111 S. Burlington Ave., Los Angeles 57; Bellove Co., 420 Market St., San Francisco 11; E. & M. Equipment Co., 2415 15th St., Denver; J. C. McDougall Co., 520 First Ave., South, Seattle 4.

FERRANTI ELECTRIC INC., 30 Main St., Brooklyn, N. Y.—Paramount Technical Agency, 9210 28th Ave., N.W., Seattle.

FERROD MFG. CO.—(See Tuttle & Kift, Inc.)

FIFTY AVENVEL INC., Federal Pacific Elec. Co., (Formerly Roller Smith Corp.) 50 Avenue L, Newark, N. J.—Branch 3333 San Fernando Road, Los Angeles and 5835 Third St., San Francisco; J. C. McDougall, 520 First, Seattle.

FISCHER & PORTER CO., 51 Warminster Road, Hatboro, Pa.—Sold thru Branch Offices of Sangamo Electric; A. B. Smedley & Associates, 848 Marcheta St., Altadena, Calif.

FISHER CONTROLS, Santa Monica, Calif.—Calrepco, 1417 Georgia St., Los Angeles.

FISHER-PIERCE CO., INC., 170 Pearl St., South Braintree, Mass.—Oscar Hogenson, 95 Connecticut St., Seattle; J. A. Tudor Associates, 1004 S.E. Belmont, Portland; Allen I. Williams, 2263 South Albion St., Denver, and 3221 Silver Ave., S. E., Albuquerque; Maydwell & Hartzell, Inc., 870 Tennessee St., San Francisco, 427 W. 5th St., Los Angeles, 5823 Henley Dr., San Diego, and 120 So. 29th St., Phoenix. **(See ad, p. 47)**

FISHER GOVERNOR CO., 1700 Fisher Bldg., Marshalltown, Iowa—Williams Equipment & Controls, 204 Dooly Bldg., Salt Lake City.

FLETCHER MFG. CO., P. O. Box 246, Englewood, Ohio Through electrical wholesale jobbers. Graybar Electric Co., Westinghouse Electric Supply, General Electric Supply, Mine & Smelter and Coast Wholesale. Wholesalers, all principal cities.

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FLEXIBLE MOLDED HEATER DIV., Edwin L. Wiegand Co., 7500 Thomas Blvd., Pittsburgh, Pa. — Montgomery Brothers, Inc., 1122 Howard St., San Francisco; 4800 District Blvd., Los Angeles; 911 Western Ave., Seattle, and 1632 N. W. Johnson, Portland.

FLEXO WIRE (Div. of Copperweld Steel Co.), 70 W. First St., Oswego, N. Y.—Jordan Brookes Co., 6601 Telegraph Rd., Los Angeles 22, and 571 Howard St., San Francisco.

FLUOR PRODUCTS COMPANY, 12000 E. Washington Blvd., Whittier, Calif., P. O. Box 1267, Santa Rosa, Calif.; Carns-Hoagland, 420 No. 15th Ave., Phoenix.

FLOY TAG & MFG. CO., 2909 Blakly, Seattle, Wash.

FLYNN MFG. CO., Michael, Tabor Road & Godfrey Ave., Philadelphia, Pa.—Branch: West Coast Plant: City of Industry, Calif.

FOOTE BROS. GEAR & MACHINE CORP., 4545 S. Western, Chicago 9, Ill.—Branch: 3529 Firestone Blvd., South Gate, Calif. Hamilton Associates, 1236 Elati St., Denver; Power Transmission Products, 1107 N. W. 14th Ave., Portland; National Equipment Co., 101 W. 2nd St. S., Salt Lake City; Charles A. Fowler, 979 Bryant St., San Francisco; Carlsbad Supply Co., 301 Park Drive, Carlsbad, N. M.; Union Supply Co., Casper, Wyo., Cripplecreek, Colo., and Denver; Edward D. Maltby Co., 2041 W. Anaheim Rd., Long Beach, 4035 E. 52nd St., Maywood, Calif., 120 S. 4th St., Phoenix, and 745 15th St., San Diego; Stockton Iron Works, Stockton Calif.; Sprockets, Inc., 3628 E. Marginal Way, Seattle, and 31 N. W. 1st Ave., Portland.

FORDHAM MFG. CO., 2220 Pearsall Ave., New York City 67—James C. Pope, Jr., 2720 So. San Pedro St., Los Angeles.

FOREST CITY BIT & TOOL CO., 9th Ave. N.W., Hickory, N. C.—E. M. Spence, 2720 San Pedro, Los Angeles 11.

FOREST ELECTRIC CO., 7220 Circle Ave., Forest Park, Ill.—Carl M. Segal Co., 14942 Aztec St., San Fernando, Calif.

FORMICA CO., 4614 Spring Grove Ave., Cincinnati 32, Ohio—Glenn H. Taylor, 2300 South Eastern Ave., Los Angeles 22; Harry L. Richards, 907 Post St., San Francisco 9; H. B. Beswick, Civic Service Center 550 Mercer St., Seattle 9; R. N. Power, 3030 N. W. 29th Ave., Portland; R. C. Hockaday, 1052 Rosecrans St., San Diego; Robert K. Hudson, 1445 Kearney St., Denver.

FORNI INC., Christy Products, 1379 62nd St., Emeryville, Calif.—Sold thru distributors.

FOSTER WHEELER CORP., 666 Fifth Ave., New York City 6—Branch Offices: 461 Market St., San Francisco; 714 W. Olympic Blvd., Los Angeles, 808 106th N.E., Bellevue, Wash.; Honolulu Iron Works, P. O. Box 3140, Honolulu, Hawaii.

FOSTORIA CORP., 1200 N. Main, Fostoria, Ohio—C. W. McDaniel, P. O. Box 4236, Carmel, Calif.; E. J. Imhof, 711 South Vermont Ave., Los Angeles.

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Long Beach:	800 West 16th St. HEmlock 2-2911
Los Angeles:	210 Anderson St. ANgelus 3-7282
Oakland:	1911 Union St. GLencourt 1-5451
Oceanside:	805 N. Tremont St. SAratoga 2-2141
Sacramento:	1900 - 14th St. HIckory 4-8830
San Bernardino:	655 South "H" St. TUrner 9-1051
San Diego:	720 State St. BElmont 3-1361
San Jose:	1376 N. Tenth St. CYpress 2-9090
San Francisco:	1750 Alameda St. MArket 1-5131
Santa Ana:	301 French St. KImberly 3-8309
Santa Barbara:	329 S. Salinas St. WOodland 5-1013
Van Nuys:	15520 Cabrito Road STate 2-9600

COLORADO

Colorado Springs:	630 West Vermijo Ave. MElrose 4-3701
Denver:	104 Wazee Market TAbor 5-7111

IDAHO

Boise:	1325 Idaho St. BOise 3-2594

MONTANA

Butte:	604 E. Aluminum St. BUtte 3233

OREGON

Eugene:	2380 West Broadway DIamond 4-2224
Portland:	N.E. 60th and Banfield ATlantic 8-5661

UTAH

Salt Lake City:	336 North Third West St. ELgin 9-8771

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Seattle:	King & Occidental Sts. MUtual 2-0123
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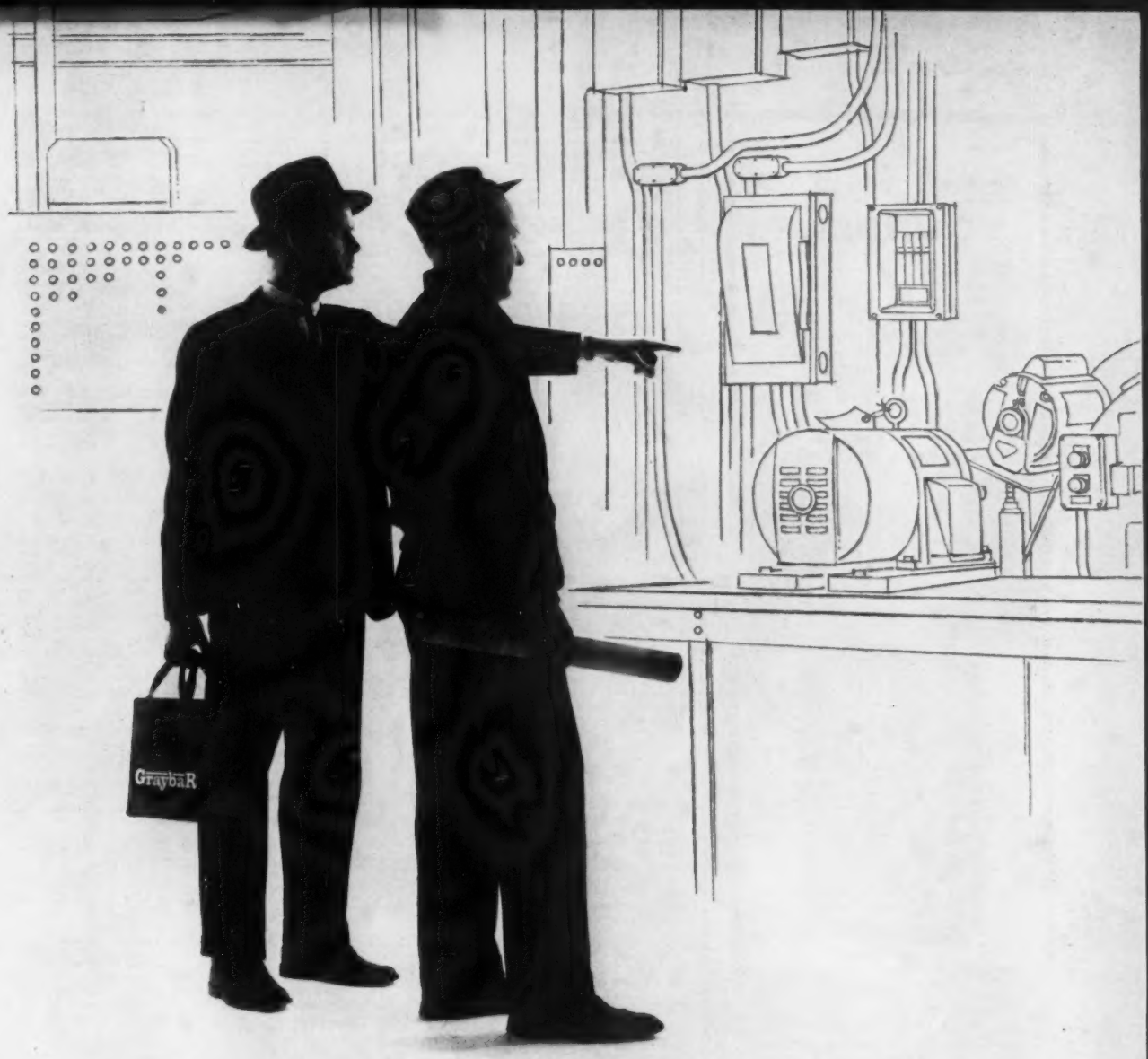

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The Graybar Specialist, backing up the salesman who calls, is there to work out the best installation method, to select equipment that's exactly right for the job, or show how to get the most from a special new tool.

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FOXBORO CO., 38 Neponset Ave., Foxboro, Mass.—Branches at 399 Preda St., San Leandro, Calif. 1212 S. Garfield, Alhambra, Calif., 516 S.E. Morrison Blvd., Portland 4, 4000 Aurora Ave., Seattle, 2520 South State St., Salt Lake City, 2829 E. 2nd Ave., Denver 6, 1021 Burgess Dr., El Paso, Tex.

FRANKEL CONNECTOR CO., 27 Vestry, New York City—Rutkin Electric Sales Co., 744 Kohler St., Los Angeles; c/o Magnes Co., 201 Broadway, Oakland 7, Calif.

FRANKLIN PLASTICS, INC., Cameo Blvd., Franklin, Pa.—A. H. Jaeger Co., 1906 Bigelow Ave., Seattle.

FRESH'nd-AIRE COMPANY, 3200 W. Peterson Chicago, Ill.—H. L. Norton, Territory Mgr., 201 Magellan Rd., Arcadia, Calif.; T. A. Payton, Territory Mgr., 882 La Para Ave., Palo Alto; A. H. Huot Territory Mgr., 3222 McGilvia Blvd., Seattle; Floyd Yudelson, 3142 Wilshire Blvd., Los Angeles 5.

FRICK-GALLAGHER MFG. CO., Wellston, Ohio - Branch: 1803 E. 14th St., Oakland 6, Calif.

FRIGIDAIRE DIV., General Motors Corp., 300 Taylor St., Dayton 1, Ohio — Branch Offices: Frigidaire Sales Corp., Wm. F. Cronin, Branch Mgr., 1250 53rd St., Oakland 8; S. H. Zoellner, Branch Mgr. 3251 Leonis Blvd., Los Angeles 58, Mgr., 215 Wazee Market, Denver 4; and P. W. Guthrie Branch Mgr.; W. H. Baldwin, Branch Mgr., 1035 N.W. 14th Ave., Portland 9; W. H. Bintz Co., 433 W. Third South St., Salt Lake City 11; Sunset Electric Co., N. 703 Division St., Spokane 1.

FRINK CORPORATION, THE, Bridge Plaza North Long Island City, N. Y.—William A. McGuire, P.O. Box 669, Burbank, Calif.; Westinghouse Electric Supply Corp. (All branches).

FRISBIE CO., H. C., 1120 E. Pico Blvd., Los Angeles 21, Calif.—Fred J. Stone, 24 Manzanita Ave., San Francisco; R. C. English, 4229 122nd Ave. S.E. Bellevue, Wash.; Ray Alexander, 940 S. Stout St. Blackfoot, Ida.

FULLERTON MFG. CO., Div. Franklin Research, Willard Rd., Norwalk, Conn.—Fred Gleason 657 E 45th, Seattle; Harry F. Ream Sales Agency, 1216 Santa Fe Dr., Denver 4; Ernest F. Hauch, 735 Tehama St., San Francisco; J. G. Pomeroy Co., 1004 East 4th, Los Angeles; Keith Lagerstrom, E. 1225 E. 8250 St., Sandy, Utah.

FULLMAN MFG. CO., 1209-1218 Jefferson St., Latrobe, Pa.—L. F. Church Co., 750 Natoma St., San Francisco; Payne & Sloane, Inc., 1101 E. 5th St. Los Angeles; Harvey M. Olmstead, Box 5512, Terminal Annex, Denver; R. C. English & Associates, 4229 122nd St., S.E. Bellevue, Wash.; Nelson English, 1238 N.W. Glisan St., Portland 9. (See ad, p. 85)

FURNAS ELECTRIC CO., 1000 McKee St., Batavia, Ill.—Calhoun & Poxon Co., 5429 Alhambra Ave., Los Angeles 32; Muth-Richards Co., 1804 Bush Place, Seattle; Donal Co., P. O. Box 7013, Portland; John F. Cady Co., 1485 Bayshore, San Francisco; J. Henry Jones Co., P. O. Box 1795, Salt Lake City 16; Clyde P. Elliott Co., 661 Delaware St., Denver 4; Marshall Elmore, 140 Little Flower Rd., El Paso, Tex. (See ad, p. 30)

FUSE INDICATOR CORP., 99 Chauncy St., Boston Mass.—Guy Whitaker Co., 2952 Crenshaw Blvd. Los Angeles.

FUSITE CORP., 6000-K Fernview Ave., Cincinnati 13, Ohio—Northwest Sales & Eng. Services, 420 Market St., San Francisco and Terminal Sales Bldg., Seattle 1.

G.C.A. MFG. CO., 346 Wahconah, Pittsfield, Mass.—Sold through General Electric Supply Corp., Westinghouse Supply Corp., Graybar Electric Co., Inc. Line Material Co., Joslyn Pacific Co., in all principal cities.

G & W ELECTRIC SPECIALTY CO., 3500 W. 127th St., Blue Island, Ill.—W. R. Hendrey Co., P. O. Box 545, Burien (Seattle), Wash.; C. E. Ingalls & Sons, Monadnock Bldg., San Francisco; R. E. Cunningham & Son, 530 W. 6th St., Los Angeles; Riter Eng. Co., P. O. Box 2187, Salt Lake City; F. W. Gorman, 1701 Texas St., El Paso, and c/o John Ridanbaugh, P. O. Box 743, Albuquerque; Frank W. Gorman, % Harold O. Hunn, P. O. Box 10065, Phoenix; H. C. Guire, 715 S. York St., Denver. (See ad, p. 31)

GAI-TRONICS CORP., 607 Washington St., Redding Pa.—C. E. Ingalls & Sons, Monadnock Bldg., San Francisco.

GAMEWELL CO., THE, 2638 Chestnut St., Newton Upper Falls, Mass.—Lee Grant Snyder Co., 1418 No. Highland Ave., Hollywood, Calif.; Spicer Lindsay Assoc., 4960 E. Evans Ave., Denver.

GARDEN CITY PLATING & MFG. CO., 1750 N. Ashland Ave., Chicago Ill.—Branch Offices: Garcy Western Corp., 3912 Broadway, Los Angeles 37 and 49 Stevenson St., San Francisco 5; Bruce Emmet Corp., 830 S. E. Alder St., Portland 4.

GATE CITY STEEL, INC., 3400 Warm Springs Ave., Boise, Idaho—Offices: P. O. Box 1487, Boise, Idaho; 290 Carney St., Twin Falls, Idaho; 6776 W. 38th Ave., Wheatridge, Colo.

GATES & CO., INC., G. W., Hempstead Tpke. and Lucille Ave., Franklin Square, N. Y.—A. S. Aloe Co., San Francisco and Los Angeles; Braun Corp., Los Angeles; Braun-Knecht-Heimann Co., San Francisco; Central Scientific Co., Santa Clara and Los Angeles; Denver Fire Clay Co., Denver; Mine & Smelter Supply, Denver; Scientific Supplies Co., Seattle; University Apparatus Co., Berkeley; Redman Scientific Co. and Technical Instrument Co., San Francisco; C. M. Fassett Co., Spokane; Adolph Frese Co., Los Angeles; Hawshaw Scientific Co., Los Angeles; W. H. Hartmann, San Francisco; Kern Co., Los Angeles; Laboratory Equip. Co., San Francisco.

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GAYLORD MFG. CO., P. O. Box 58, Modesto, Calif. —McGillan Sales Co., P. O. Box 4013, Albuquerque, N. M.; W. C. Osborn, P. O. Box 6506, Phoenix, Ariz.; F. M. Nicholas Co., 72 Townsend St., San Francisco; The McLoughlin Co., 811 E. 14th Place, Los Angeles.

GEDNEY ELECTRIC CO., Rockefeller Center, New York City 20—Smith & Thomas, 5417 Marginal Way, Seattle 4; Gordon Hooper, 5202 N.E. 73rd, Portland; Rutkin Elec. Sales Co., 744 Kohler St., Los Angeles 21; George Darger Co., 521 Rio Grande St., Salt Lake City; The Baxter Co., 101 Kansas St., San Francisco. (See ads, pp. 17, 36, 40, 60, 77, 99)

GEECO, INC., 1011 S. Eighth St., St. Joseph, Mo.—California Ultraviolet Co., 420 Market St., San Francisco.

GEIGY AGRICULTURAL CHEMICALS, Ardsley, N. Y. —Div. of Geigy Chemicals. Offices in Los Angeles and Portland.

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GEMS COMPANY, INC., Sheppard Lane, Farmington Conn.—Carkeek Eng. Co., 285 S. Euclid Ave., Pasadena, Calif.; Imco Equip. Co., 1980 Mt. Blvd., Oakland 11; Standard Electric Sales, 104 W. Lucile St., Seattle 4; Berkley Eng. & Equip. Co., P. O. Box 3856, Int'l. Airport, Honolulu 12, Hawaii.

GEN-A-MATIC CORPORATION, 14741 Bessemer St. Van Nuys, Calif.—Edward R. Bacon Co., Folsom St. at 17th St., San Francisco; Northwest Loggers Supply, Inc., 310 S. E. Stephens St., Portland. Standard Iron Supply, Harbor Dr. at Beardsley San Diego; C. P. Equipment, Inglewood; Great Western Equipment, Venice; Paul E. Crane Co. North Hollywood; Mine & Mill Supply Co., Los Angeles; Brown-Bevis Ind. Equip., Bakersfield. W. K. Equipment Co., San Bernardino, Calif.; M. N Thackeberry, Los Angeles and Pasadena; Complete Industrial Supply, Phoenix and Tucson; Adroit Supply, Phoenix; Lawn & Garden Supply, Phoenix; Industrial Tool & Supply, Tucson.

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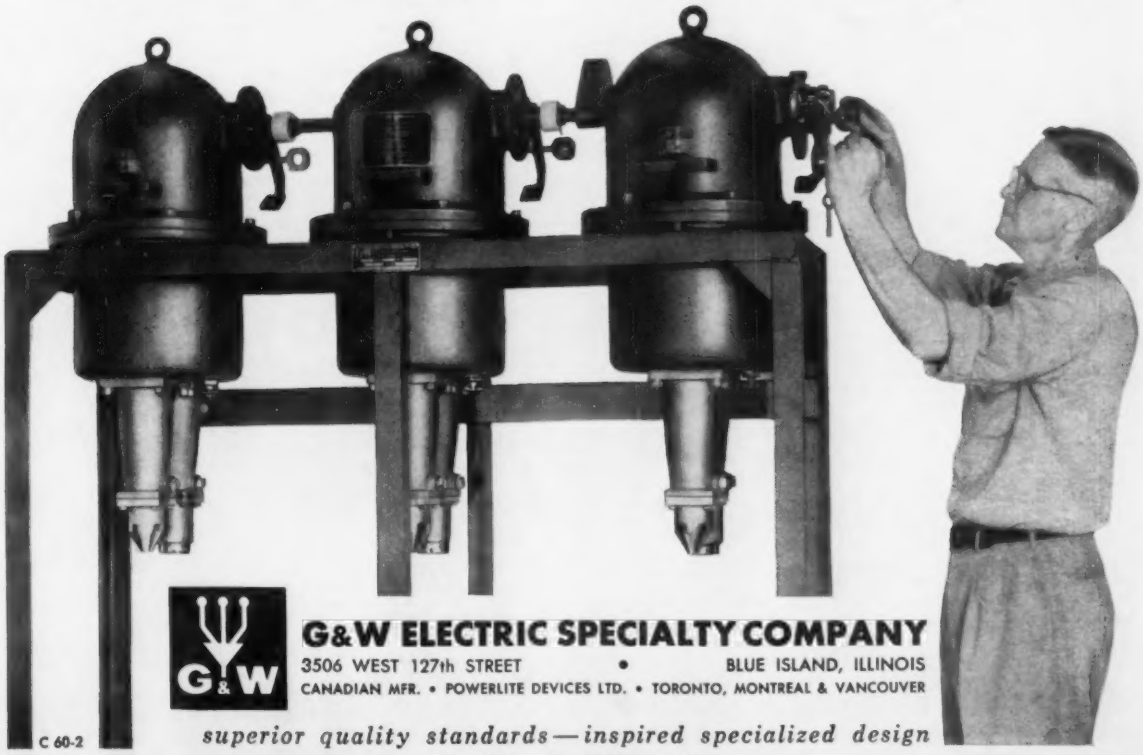
G&W Type FC72, 15 kv Oil-Fuse Cutouts have full 110 kv BIL and high interrupting ability for today's distribution circuits. Impulse withstand level is 110 kv under standard 1½ x 40 microsecond wave and 60-cycle one-minute withstand is 50 kv.

The Type FC72 Cutout can interrupt 7000 amperes asymmetrical (4200 amperes symmetrical) on single-phase operation at 13.8 kv, or 100,000 kva, symmetrical, on three-phase applications. Continuous-current rating is 200 amperes. It can break load currents up to 300 amperes where power factors are 50% or higher and can break magnetizing and load currents of 100 amperes at power factors of 20% or less. Metal-to-metal flanged surfaces with retained gaskets and a heavy wall dome area make this device applicable for use in hazardous locations.

The new G&W 15 kv Cutout is safe, simple to install, easy to operate, and requires little maintenance. In-line construction with operating shaft running horizontally through the cutout dome makes possible coupling of gang-operated cutout shafts in a straight line. Operating handle rotates beyond dead center to lock both "On" and "Off" positions. The interrupter unit with fuses and replaceable switch contacts is raised into the dome above the oil when the cutout is switched to the "Off" position. They are accessible when dome is swung back on its hinge. Dome cannot be opened while switch is in the "On" position.

Repeated tests of the G&W Type FC72 Oil-Fuse Cutout show it will operate five times at full interrupting rating before inspection or replacement of oil is needed.

Contact your G&W representative for complete information, or send for Catalog CC.



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GENERAL CEILINGS, INC., 248 McKibbin St., Brooklyn 8, N. Y.—James Mundstock, 417 Market St., San Francisco.

GENERAL CONTROL CO., 1200 Soldiers Field Rd., Boston, Mass.—C. B. Rush & Assoc., 3757 Wilshire Blvd., Los Angeles.

GENERAL CONTROLS CO., Pic Automation Controls Div., 8080 McCormick Blvd., Skokie, Ill.—Branch offices in San Francisco, Los Angeles, Salt Lake City, Denver, Phoenix. Distributors: C. B. Parsons, 3028 First Ave., Seattle; E. W. Bliss Co., 816 N. Hollywood Way, Burbank, and 7th and Commercial St., San Jose; Gough Industries, Inc., 819 E. First St., Los Angeles; R. V. Weatherford Co., 6921 San Fernando Rd., Glendale; Pacific Coast Instrument Co., 256 Mission St., San Francisco; Phillips & Edwards Elec. Corp., 265 Vermont St., San Francisco.

GENERAL ELECTRIC COMPANY, General Offices: Schenectady, N. Y.—C. C. Walker, Regional Vice President, Headquarters, 235 Montgomery St., San Francisco; Public Relations Services Division, 235 Montgomery St., San Francisco, R. W. Jackson, Manager, West Coast Region; Engineering Recruiting Services, 235 Montgomery St., San Francisco, J. B. Holmes.

INDUSTRIAL SALES OPERATION: Headquarters, Schenectady, N. Y.—J. S. Lester, Manager, Pacific Region, 235 Montgomery St., San Francisco, Calif.; D. H. McAllister, Manager, Pacific Southwest Region, 212 N. Vignes St., Los Angeles, Calif. Marine & Defense Facilities Sales Operation: W. B. Swan, Manager, San Francisco Sales Office, 235 Montgomery St., San Francisco, Calif.; Paul Bukunt, Manager, Los Angeles Sales Office, 3325 Wilshire Blvd., Los Angeles, Calif.; R. C. Black, Manager, Seattle Sales Office, 550 W. Idaho St., Seattle, Wash.

ELECTRIC UTILITY SALES OPERATION: Headquarters, Schenectady, N. Y.—H. C. Glaze, Manager, Pacific Northwest Region, 710 Second Ave., Seattle, Wash.; W. A. Sredenschek, Manager, Pacific Southwest Region, 212 N. Vignes St., Los Angeles, Calif.; A. D. Bragg, Manager, Pacific Region, 235 Montgomery St., San Francisco, Calif.; J. F. Gogins, Manager, Rocky Mountain Region, 201 University Blvd., Denver 6, Colo. Installation and Service Engineering Department—R. A. Hammond, Manager, Pacific Northwest District, 235 Montgomery St., San Francisco, Calif.; P. L. Savage, Manager, Pacific Southwest District, 212 N. Vignes St., Los Angeles, Calif.; J. L. Bauer, Manager, Rocky Mountain District, 201 University Blvd., Denver 6, Colo.
Offices located in: Oakland, Sacramento, Stockton, Fresno, Rialto and San Diego, Calif.; Phoenix and Tucson, Ariz.; Portland, Medford and Eugene, Ore.; Tacoma, Spokane, Pasco and Wenatchee, Wash.; Salt Lake City, Utah; Boise, Idaho; Billings and Butte, Mont. Service Shops and Warehouses located in: San Francisco, Oakland, Sacramento and Los Angeles, Calif.; Portland, Ore.; Seattle, Wash.; Salt Lake City, Utah; Denver, Colo.; Spokane, Wash.

MAJOR APPLIANCE DIVISION: Headquarters, Louisville, Ky.—H. P. Gough, No. Calif. Mgr., Sales and Distribution Dept., 1649 Adrian Rd., Burlingame, Calif.; Mr. W. B. Frogue, So. Calif. Mgr., 2957 E. 46th St., Los Angeles; B. L. Heywood, N.W. Dist. Mgr., 1212 1st Ave. So., Seattle; H. A. Oliphant, Dist. Mgr., 132 So. Second West St., Salt Lake City.

ATOMIC PRODUCTS DIVISION. Headquarters: 701 University Ave., Palo Alto, Calif. Lyman R. Fink, Gen. Mgr. **Atomic Power Dept.**—2151 South First St., San Jose, Calif.; Geo. White, Gen. Mgr., **Hanford Atomic Products Operation**, Richland, Wash.; W. E. Johnson, Gen. Mgr.

CHEMICAL & METALLURGICAL DIVISION: Headquarters, Bridgeport, Conn.—**Chemical Materials Dept.**: R. M. Kavish, Sales Rep., 220 E. 3rd Ave., San Mateo, Calif.; **Laminated Products Dept.**: N. B. Billman, Sales Rep., 10234 Lakewood Blvd., Downey, Calif.; V. C. Price, Sales Rep., 1229 Burlingame, Calif.; J. G. Ballard, Sales Rep., 314 Fairview North, Seattle; **Silicone Products Dept.**: L. J. Sacks, Western Sales Dist. Mgr., 10234 Lakewood Blvd., Downey; D. D. Roger, Sales Rep., 220 East 3rd St., San Mateo, Calif.; **Insulating Materials Dept.**, A. D. Stone, Jr., Sales Rep., 10234 Lakewood Blvd., Downey, Calif.; **Metallurgical Product Dept.**: R. D. Mack, Pacific Dist. Mgr., 2106 W. Washington Blvd., Los Angeles; R. J. Benefiel, Sales Rep., Box 206, Danville, Calif.; **Construction Materials Sales Operation**: W. W. Bryan, District Manager, 2142 So. Tubeway, Los Angeles; A. A. Olson, Sales Rep., 870 Market St., San Francisco; W. D. Hattenburg, Sales Rep., 220 Dawson St., Seattle; L. B. Johnson, Sales Rep., 200 S. Main St., Salt Lake City. Offices also in Spokane, Portland, San Diego. **Wire and Cable Factory**: W. P. Cook, Mgr., 1034 66th Ave., Oakland, Calif.; **Wiring Device Dept.**: W. S. Wanke, Sales Rep., 870 Market St., San Francisco.

COMPONENTS SALES OPERATION: Headquarters: Ft. Wayne, Ind.; D. I. Anzini, Pac. Dist. Mgr., 235 Montgomery St., San Francisco; R. E. Johnson, Pac. S.W. Dist. Mgr., 212 No. Vignes St., Los Angeles.

DEFENSE ELECTRONICS DIVISION: Headquarters, Syracuse, N. Y.—A. D. Hammes, Dist. Mgr., Missile and Ordnance Systems Dept., 3325 Wilshire Blvd., Los Angeles. D. D. Whitcraft, Mgr., West. Dist., **Heavy Military Elect. Equip. Dept.**, 6607 W. 80th St., Los Angeles. J. R. Lichty, Dist. Mgr., **Light Military Electronic Equip. Dept.**, 3325 Wilshire Blvd., Los Angeles. Dr. R. C. Raymond, Mgr., TEMPO, **Defense Planning & Develop. Operat.**, 735 State St., Santa Barbara, Calif.

FLIGHT PROPULSION DIVISION: Headquarters, Cincinnati, O.—W. F. Cronin, Western Dist. Mgr., Field Sales Operation, 3325 Wilshire Blvd., Los Angeles; R. D. Johnson, Field Sales Operation, 550 West Idaho St., Seattle; E. V. Albert, Field Sales Operation, P. O. Box 3337, Hillcrest, Sta., San Diego; Robert Dewing, Prod. Eng. Dept., 794 Blackthorne St., Fletcher Hills, Calif.; E. E. Doorly, Mgr., CAP SO Flight Prop. Lab., P. O. Box 336, Danville, Calif.; R. J. Sheehan, Aircraft Accessory Turbine Dept., 3325 Wilshire Blvd., Los Angeles.

ELECTRONIC COMPONENTS DIVISION: Headquarters, Owensboro, Ky.; Dr. C. G. Lob, Mgr., **Microwave Laboratory**, 601 California Ave., Palo Alto; **Semi-Conducter Products Dept.**: Ward Gebhardt, Western Reg. Mgr., 11840 West Olympic Blvd., Los Angeles; R. W. Olson, Dist. Sales Mgr., 442 Peninsular Ave., San Mateo; B. S. Angwin, Reg. Mgr., **Receiving Tube Dept.**, 11840 W. Olympic Blvd., Los Angeles; R. E. Giannini, Reg. Mgr., **Receiving Tube Dept.**, 11840 W. Olympic Blvd., Los Angeles; T. H. Weicker, Dist. Mgr., **Receiving Tube Dept.**, 442 Peninsular Ave., San Mateo, Calif.; T. A. Reese, Dist. Mgr., 550 West Idaho St., South.

INDUSTRIAL ELECTRONICS DIVISION, headquarters New York City—**Computer Dept.**, C. C. Lasher, Gen. Mgr., P. O. Drawer 270, Phoenix; Dr. C. F. Spitzer, Mgr., Computer Lab., 951 Commercial St., Palo Alto, Calif.; C. T. Haist, Pac. Reg. Mgr., 235 Montgomery St., San Francisco; T. J. O'Rourke, Dist. Sales Mgr., 1010 So. Flower St., Los Angeles; **Industry Control Dept.**: F. E. Strauss, Mgr., San Leandro Sec., 2955 Merced St., San Leandro, Calif.

X-RAY DEPARTMENT: J. E. Watkins, Zone Mgr., Western, 105 Filmore St., Denver; Medical X-Ray Section: C. H. McMillan, Dist. Mgr., 1225 N. Vermont Ave., Los Angeles; C. H. Morris, Dist. Mgr., 522 N. W. 23rd Ave., Portland; K. S. Dawson, Dist. Mgr., 215 S. Fourth St. East, Salt Lake City; L. M. Rasmussen, Dist. Mgr., 1269 Howard St., San Francisco; R. S. Robinson, Dist. Mgr., 217 Eighth Ave., North, Seattle; J. P. Quinn, Dist. Mgr., N. 1112 Washington St., Spokane; A. T. Koenninger, Dist. Mgr., P. O. Box 3230, Honolulu, Hawaii. X-Ray Dept., Industrial X-Ray Section: E. W. Milburn, 235 Montgomery St., San Francisco; R. D. Westphal 1725 N. Vermont Ave., Los Angeles; J. R. O'Keefe, Mgr., Warehouse and Service Center, 2088 Wayne Ave., San Leandro, Calif.

GENERAL ELECTRIC SUPPLY CO. DIVISION: Headquarters, Bridgeport, Conn.—H. C. Gerster, West. Reg. Zone Mgr., 700 Turner St., Los Angeles; A. E. Fleming, Dist. Mgr., 1429 18th St. Denver; V. S. Cooper, Dist. Mgr., 1201 Bryant St., San Francisco; R. S. Belnap, Dist. Mgr. 312 W. Second S. St., Salt Lake City; R. P. Moser, Dist. Mgr., 1212 1st Ave. S., Seattle. Branches in principal cities.

HOTPOINT DIVISION: Headquarters, Chicago, Ill.—**Sales Department**: H. E. Silvernail, 458 Peninsular Ave., San Mateo, Calif.; **Distribution Department**: R. A. McWhinney, District Mgr., 212 N. Vignes St., Los Angeles; P. J. Drieci, District Mgr., 2819 Elliott Ave., Seattle 1.

LAMP DIVISION: Headquarters, Cleveland, Ohio—**Large Lamp Dept.**: George S. Trotter, Western Regional Sales Mgr., 999 98th Ave., Oakland, Calif.; J. W. Billings, Pac. Dist. Mgr., 999 98th Ave., Oakland; E. C. Herron, South Pacific District Mgr., 2747 S. Malt Ave., Los Angeles; F. A. Brewer, Mgr., Puget Sound Sales Dist., 10 West Connecticut, Seattle; D. R. Dyrenforth, Sales Rep., 251 East Fifth South St., Salt Lake City; C. A. Rost, Sales Mgr., North Pacific Sales Dist., 2800 N.W. Nela St., Portland, Ore.; R. D. Paine, Mgr., Oakland Lamp Factory, 1648 16th St., Oakland, Calif.; **Miniature Lamp Dept.**: E. E. Coleman, Western Sales District Mgr., 2747 South Malt Ave., Los Angeles; **Photo Lamp Dept.**: L. H. Hruby, Mgr., Western Sales District, 2747 So. Mall Ave., Los Angeles; **Lamp Service Districts**: T. C. Hook, 999 98th Ave., Oakland; Dale Sacia, 2800 N.W. Nela St., Portland, and R. A. Hynett, 2747 So. Malt Ave., Los Angeles.

HOUSEWARES & COMMERCIAL EQPT. DIVISION: Headquarters, Bridgeport, Conn.—Portable Appliance Dept.: M. M. Wheeler, Reg. Mgr., 1090 Bryant St., San Francisco; **Automatic Blanket & Fan Dept.**: J. T. Casey, Reg. Mgr., Automatic Blanket & Fan Dept., 2804 Beverly Blvd., Los Angeles; H. Hamilton, Dist. Rep. (blankets), 1090 Bryant St., San Francisco; Roy Weldon, Dist. Rep. (blankets), 2804 Beverly Blvd., Los Angeles; K. W. Engel, Dist. Rep., 401 Westlake Ave. N., Seattle; **Clock and Timer Dept.**: R. K. Kidder, Regional Sales Mgr., 2804 Beverly Blvd., Los Angeles. **Vacuum Cleaner Dept.**: C. J. Hill, Dist. Rep., 1090 Bryant St., San Francisco; J. Kern, Dist. Rep., 2804 Beverly Blvd., Los Angeles; Q. W. Vietor, 401 Westlake Ave., N., Seattle. **Radio Receiver Dept.**: R. A. Bowen, Dist. Rep., 1090 Bryant St., San Francisco; B. P. Davis, Dist. Rep., 1233 S. Hope St., Los Angeles; P. J. Ward, Dist. Rep., 2905 3rd Ave., Seattle; **Appliance Service Centers**: A. F. Arnold, Dist. Service Mgr., 1090 Bryant St., San Francisco; E. A. Andrews, Dist. Service Mgr., 2804 Beverly Blvd., Los Angeles; P. E. Baker, Dist. Service Mgr., 401 Westlake Ave. N., Seattle. Portable Appliance Dept., Manufacturing Section, Ontario Plant: W. Batchelor, Plant Mgr., Main St. and Euclid Ave., Ontario, Calif.

MOTOR & GENERATOR DIVISION: Headquarters, Erie, Pa.—San Jose Motor Plant, 2155 S. 1st St., San Jose, D. E. Moorhead, Mgr.

SWITCHGEAR AND CONTROL DIVISION: Headquarters, Philadelphia, Pa.—Distribution Assemblies Dept., Headquarters: Plainville, Conn.: W. W. Smith, Manager, California Plant, 11115 Vanowen St., North Hollywood, Calif.; G. L. Zimmerman, Plant Manager, 303 W. Hudson St., Seattle, Wash.

TRANSFORMER DIVISION: Headquarters. Pittsfield, Mass.—**Distribution Transformer Dept.**: J. A. Yunker, Mgr., Oakland Transformer Plant, 5441 E. 14th St., Oakland; **Insulator Dept.**, Headquarters, Baltimore, Md.—T. E. Traugott, Regional Mgr., 1229 Burlingame Ave., Burlingame.

GENERAL EQUIPMENT & MFG. CO., 116 S. Campbell, Louisville, Ky.—Montgomery Brothers, Inc., in following cities: 1122 Howard St., San Francisco, 4800 District Blvd., Los Angeles, 1632 N. W. Johnson, Portland, 911 Western, Seattle, 5103 N. Hawthorne, Spokane, and 1331 T St., Sacramento, Calif.

GENERAL FIRE EXTINGUISHER CO., 8740 Washington Blvd., Culver City, Calif.—Branch Offices: 127 10th St., San Francisco 3; 416 Bell St., Seattle 1; 6648 Vigo Dr., San Diego 3; 1220 S. W. Stark, Portland.

GENERAL INDUSTRIES CO., Olive & Taylor Sts., Elyria, Ohio—James J. Backer Co., 221 West Galer St., Seattle 99; W. Bert Knight Co., 13037 W. Pico Blvd., Los Angeles 64; Gordon G. Moss, P. O. Box 428, Greeley, Colo.; Moulthrop & Hunter, 165 11th St., San Francisco 3.

GENERAL INSTRUMENT CORP., 65 Governeur St., Newark, N. J.—Logan & Stone, 1485 Bayshore Blvd., San Francisco; James J. Backer Co., 221 W. Galer St., Seattle; M. Mann Associates, 14751 Keswick St., Van Nuys, Calif.

GENERAL INSULATED WIRE WORKS, INC., Div. General Cable Corp., 69 Gordon Ave., Providence, R. I.—Branch Offices: 185 Industrial St., San Francisco; 2906 Leonis Blvd., Los Angeles 58; 915 Fee Dr., No. Sacramento 15; 520 E. St., Room 811, San Diego; 2215 N. W. Quimby, Portland 10; 1137 W. Hanford St., Seattle 4; John Tubergen, 2232 W. 11th St., Los Angeles.

GENERAL LIGHTING CO., Brooklyn, N. Y.—James Mundstock, 417 Market St., San Francisco; George Howard, Rt. 2, Box 2088, Bainbridge Island, Wash.; Tri-Western Agency, 1327 Major St., Salt Lake City; Gregg N. Cloos, 977 Jackson St., Denver; Gruen Lighting, 8336 W. 3rd St., Los Angeles.

GENERAL METALS, INC., 858 Goldsboro, Greensboro, N. C.—Sold by electrical wholesalers.

GENERAL PRODUCTS CORP., Mills Bldg., Union Springs, N. Y.—Fisher-Switches, Inc., 40 Gough St., San Francisco.

GENERAL RADIO COMPANY, West Concord, Mass.—General Radio Co., 1000 No. Seward St., Los Angeles 38, Calif.; 1186 Los Altos Ave., Los Altos, Calif.

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GENERAL TRANSFORMER CO., 18240 Harwood Ave., Homewood, Ill. — Marshank Sales, 7422 Melrose, Los Angeles; Win W. Thompkins Co., 2636 Birch St. Palo Alto, Calif.

GENTEX CORP., 203 W. 34th St., New York 1, N. Y. —Best Linemen's Supply Corp., 541 First Ave. South, Seattle.

GEORGE CO., P. D., 5200 N. Second St., St. Louis 7, Mo.—Insulation and Wires, Inc., 6415 E. Fleet St., Los Angeles 22; 255 Loomis St., San Francisco; 1112 N. W. 19th Ave., Portland.

GERILITE FIXTURE CO., 411 S. Isis, Inglewood, Calif.—Ray Alexander, 940 Stout St., Blackfoot, Ida.; Frank Tocci, 51 Troy Place, Hayward, Calif.; Birpaco Sales, 7545 N. E. Glisan, Portland.

GERINGER & SONS MFG. CORP., Peekskill, N. Y.—Neil Winikoff, 2700 Beacon Ave., Seattle; Marwin R. Altfield, 3038 Overland Ave., Los Angeles 24; M. A. Wagner, 1075 Broadway, Belmont, Calif.; B. C. Lashinsky, 4714 N. 16th Dr., Phoenix, Ariz.; Jim Dawson, 661 Delaware St., Denver 4.

GIBBONS ELECTRIC CO., 918 Di Giulio, Santa Clara, Calif.—Calrepco, 1417 Georgia St., Los Angeles; J. E. Edstrom, 1224 S. W. Morrison, Portland; W. R. Hendrey Co., P. O. Box 545, Burien, Wash.; Harold Hunn, Box 10065, Phoenix, Ariz. (See ad, p. 33)

GIBSON ELECTRIC CO., Box 593, Delmont, Pa. — E. A. Wilcox Co., 173 Utah Ave., So. San Francisco; 6436 E. Corvette St., Los Angeles; 915 Arctic Bldg., Seattle.

GIBSON MFG. CO., 1919 Piedmont Circle N. E., Atlanta, Ga.—L. D. Black, 2200 Ocean View Ave., Los Angeles; John Thompson, 4242 No. 15th Dr., Phoenix; Neil Winikoff, 2700 Beacon Ave., Seattle; Robert Gordon, 4016 Oak Hill Rd., Oakland; Douglas E. Bolton, 2795 East 3220 South, Salt Lake City; Arthur E. Bacon Jr., 1240 South Elizabeth St., Denver 10; Harvey Judd, 8520 E. Florence Ave., Downey, Calif. Distributor: Calif. Wholesale Elec. Co., 2548 Yates Ave., Los Angeles 22.

GILL GLASS AND FIXTURE CO., Castor and Tulip Sts., Philadelphia, Pa.—Branch Office: 631 Mesquite St., Los Angeles.

GITS METAL MOLD, J. P., Huron and Kenton Sts., Chicago 44, Ill.—Littrell Hardware, 3121 East 12th, Los Angeles, and 1325 Egbert Ave., San Francisco.

GLASTIC CORP., 4321 Glenridge, Cleveland 21, Ohio—Insulation and Wires, Inc. In following cities: 6415 East Fleet St., Los Angeles 22; 310 Shaw Ave., South San Francisco, and 1112 N. W. 19th St., Portland 9.

GLEASON REEL CORP., Mayville, Wis.—Harold F. Wells, 420 Market St., San Francisco.

GLENN ELECTRIC HEATER CORP., 372 Jelliff Ave., Newark, N. J. — West Coast Plastic Distributors, 4113 W. Jefferson St., Los Angeles; Costello & Co., 3406 W. Washington Blvd., Los Angeles.

GLENN PACIFIC POWER SUPPLY CO., 703 Thirty-seventh Ave., Oakland, Calif.—L. F. Church Co., 750 Natoma St., San Francisco.

GLOBAR DIVISION, the Carborundum Co., Niagara Falls, N. Y.—Branch Offices: L. F. Davies, 2626 Malt Ave., Los Angeles 22.

GLOBE ILLUMINATION COMPANY, 2121 S. Main St., Los Angeles, Calif.—Luke Simpson, Bank of America Bldg., San Diego; Harry Ream Sales Agency, 1216 Santa Fe Dr., Denver 4; Joe Pellicano, 1226 S. W. Hume, Portland, and 3020 92nd St., Seattle; M. J. Hooey & Assoc., 1485 Bayshore Blvd., San Francisco; John S. Jennings, 620 Eye St., Sacramento 14; Alfred E. Linzer, 1507 Kapiolani Blvd., Honolulu, Hawaii.

GLOBE COMPANY, PRODUCTS DIV., 4000 S. Princeton Ave., Chicago, Ill. — Branch: 1965 Lombardy Road, San Marino, Calif.; The Squires Co., 370 Fourth St., San Francisco; Cascade Distributors, 1230 S. E. 7th Ave., Portland, and 1918 First Ave. S., Seattle; Steel Engineers Corp., 1526 S. W. Temple St., Salt Lake City; Western Specialty Co., Phoenix; The Glenmart Co., 6440 E. Corvette, Los Angeles; Paterson Co., 4949 Colorado Blvd., Denver; Construction Materials Co., 324 S. Montana, Butte.

GLOBE INDUSTRIES, INC., 1800 Stanley Ave., Dayton 4, Ohio—Joe Davidson & Assoc., P. O. Box 108, South Gate, Calif.; Long & Assoc., 505 Middlefield Rd., Redwood City, Calif.; Samuel Stroum Co. Inc., 621 Michigan St., Seattle 8.

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GOOD ALL ELECTRIC MFG. CO., 112 W. First, Ogallala, Neb.—Western Corrosion Service, 1313 Ave. E, Billings, Mont.; The Vanode Co., 880 E. Colorado, Pasadena, Calif.; Pipeline Protection Co., 420 Market St., San Francisco.

GOODRICH INDUSTRIAL PRODUCTS CO., B. F., Marietta, Ohio—Branch Offices: 325 Valley Dr., Brisbane, Calif.; 3525 South Garfield Ave., Los Angeles 22; 2500 West 8th Ave., Denver 4, and 4600 N.W. St. Helens Road, Portland 10.

GOTHAM LIGHTING CORP., 37-01 31st St., Long Island City, N. Y.—Wm. O. Proby & Assoc., 2915 13th Ave., S. W., Seattle, and 1308 N. W. Everett, Portland 9; L. D. Black & Assoc., 2200 Ocean View Ave., Los Angeles; Wm. Benndorf Co., 221 E. Camelback Rd., Phoenix; Robert Thallon, P. O. Box 937, Sta. A, San Mateo, Calif.; Congdon & Co., Denver, Colo.

GOULD NATIONAL BATTERIES, INC., 467 Calhoun St., Trenton, N. J.—Branch Offices: C. H. Hart, Regional Mgr., 949 55th St., Oakland; 14500 Nelson Ave., La Puente, Calif.; 4150 Fox St., Denver; 415 So. 2nd East, Salt Lake City.

GOULDS PUMPS, INC., 300 Fall St., Seneca Falls, N. Y.—R. M. Wade & Co., 1919 N. W. Thurman St., Portland, and 532 First Ave. South, Seattle; Pump Engineering Co., 2011 S. Santa Fe Ave., Los Angeles; Woodin & Little, Inc., 33 Fremont St., San Francisco; Central Station Equip. Co., Tucson, Ariz.; G. M. Wallace Co., 324 Denham Bldg., Denver, 1228 Continental Bank Bldg., Salt Lake City, and 803 S. Arizona, Butte, Mont.

GRAMER-HALLDORSON TRANSFORMER CO., 700 West 7th St., Mt. Carmel, Ill.—Logan & Logan, 254 12th St., San Francisco 3; Mark Markman, 4260 Lankersheim Blvd., North Hollywood, Calif.

GRAY CO. INC., EDMUND A., 2277 E. 15th, Los Angeles, Calif.—O. W. Coombs Sales, 1026 S. Oliver St., Los Angeles.

GRAY INSTRUMENT CO., 448 Mill Road, Andalusia, Pa.—James L. Kearns Co., 6055 N.E. Glisan, Portland 13; Enright Engineering Co., 302 West Arbor Vita, Inglewood, Calif.

GRAYSIX COMPANY, 2427 4th St., Berkeley, Calif. —George A. Gray Co., 2720 17th St., San Francisco 10.

GREAT WESTERN DIV., Interlectric Corp., 1401 Lexington Ave., Box 239, Warren Pa. — Michel Brothers, 1015 East 16th St., Los Angeles; Bruce-Emmett Co., 830 S. E. Alder, Portland 14; M. P. F Craig, 1016 1st Ave., Seattle; Max D. White, 410 Wall St., Salt Lake City; Stewart Holmes, N. 5923 Drumheller, Spokane.

GREENE ELECTRIC FURNACE CO., 2702 6th Ave So., Seattle 4, Washington.

GREENLEE TOOL CO., 2136 12th St., Rockford, Ill. Lippincott Co., Inc., 1052 W. 6th St., Los Angeles 14; 1355 Market St., San Francisco 5; 911 Western Ave., Seattle 4 and 4232 Shanna St., Salt Lake City 17.

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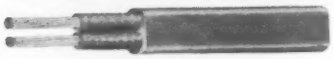
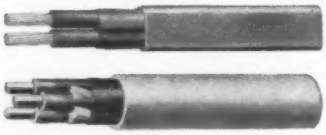
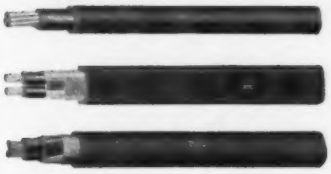
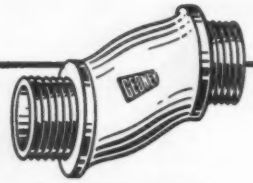
Index of Phelps Dodge

Wires and Cables	Type Letter	Trade Name or Designation	Maximum Operating Temperature	USE
	ACV	Armo-Lok	85 C (185 F)	Dry Locations
	None	Armo-Lok	85 C (185 F) High Voltage	General Purpose: Consult manufacturer for specific applications
	W	Portable Power Cable	75 C (167 F)	Mining Machines, Dredges, Shovels, and similar portable applications Pennsylvania Dept. of Mines Flame Resistance Approval P-114. U. S. Bureau of Mines Listing P-114-BM.
	G		Low Voltage	
	SHD		85 C (185 F) High Voltage	
	RHW	Flamestop Heat and Moisture Resistant	75 C (167 F)	Dry and Wet Locations
	RHH	Flamestop Heat-Resistant	90 C (194 F)	Dry Locations
	RHL	Heat Resistant Rubber Lead	75 C (167 F)	Wet Locations and other Special Conditions
	NM	PD-X Nonmetallic-Sheathed Cable	60 C (140 F)	For Wiring Houses, Rural Buildings, Small Stores, and Shops.
	UF	Perma-Dure Nonmetallic-Sheathed Cable	60 C (140 F)	UF: Underground Feeder and Branch Circuit Cable for Direct Burial. NMC: For Interior Wiring in Moist or Corrosive Locations.
	UF-NMC			
	THW	Habirdure Thermoplastic insulated	75 C (167 F)	Dry and Wet Locations
	TW		60 C (140 F)	Dry and Wet Locations
	TF		60 C (140 F)	Fixture Wire
	None	Petro-Dure Thermoplastic Insulated Nylon Jacketed	60 C (140 F)	Moist locations and where exposed to mineral oil, liquid gasoline and gasoline vapor.
	None	Habirdure Machine Tool, Control, and Switchboard Wire	90C(194F) in air 80C(176F) in oil	Machine Tool, Control and Switchboard Wiring

Wires and Cables

Wires and Cables	Type Letter	Trade Name or Designation	Maximum Operating Temperature	USE
	TW	Habirdure (9T)	60 C as TW 90 C as Appliance Wiring	NEC Type TW Bldg. Wire—60°C Appliance Wiring—90°C in air or 60°C in water or oil
	None	Habirdure Appliance Wire	105 C (221 F) IN AIR 80 C (176 F) IN OIL	Appliance Wiring
	SE	Service Entrance Type SE — Style U Unarmored	75 C (167 F)	Service Entrance or Combination Service Drop & Service Entrance
	SD	Service Drop Type SD	60 C (140 F)	Service Drop
	USE	Service Entrance Type USE	75 C (167 F)	Underground Service Entrance, Direct Burial.
	V	Varnished Cloth Braided	85 C (185 F)	Dry locations only. Smaller than No. 6 by special permission.
	VL	Varnished Cloth Lead	85 C (185 F)	Wet or Dry locations. Smaller than No. 6 by special permission.
	None	Habirduct Habirprene	75 C (167 F) Low Voltage	General Purpose for Direct Burial, Aerial, Conduit and Underground Duct Installations.
		Habirite Habirprene	85 C (185 F) High Voltage	
	S or SO	Hard Service Cord	60 C (140 F)	Pendant or portable extra hard usage in damp locations; SO for oil resistance
	SJ or SJO	Junior Hard Service Cord	60 C (140 F)	Pendant or portable hard usage in damp locations; SJO for oil resistance
	SP	All Rubber Parallel Cord	60 C (140 F)	For use in pendant or portable applications in damp locations not subject to hard usage



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GRUBER LIGHTING, 90 South First St., Brooklyn 11 N. Y.—Wm. Benndorf Co., 221 E. Camelback Rd. Phoenix; Wm. A. Crowder, 1800 Taylor Ave., Seattle 9.

GRUEN LIGHTING, INC., 8336 W. 3rd St., Los Angeles, Calif. Sold thru electrical wholesalers.

GUARDIAN ELECTRIC MFG. CO., 1621 West Walnut St., Chicago 12, Ill.—Marsh Agencies, 2601 1st Ave., Seattle 1; Roy E. Renz, Hugh M. Harries, E. Ray, all of 3130 S. Hill St., Los Angeles; Frank Y. Gates, 200 South Main St., Salt Lake City; Bil Kolans Co., 499 El Camino Real So., San Bruno Calif. Distributors: R. V. Weatherford Co., 6921 San Fernando Rd., Glendale, and Elmar Electronics Inc., 140 11th St., Oakland 7.

GULTON INDUSTRIES, INC., 212 Durham Ave., Metuchen, N. J.—Perlmuth Electronic Assoc., 5057 West Washington Blvd., Los Angeles; Harry Levinson Corp., 1117 Second Ave., Seattle; John Ormond Co., 600 16th St., Oakland; Engineered Magnetics Div., 13041 Cerise Ave., Hawthorne, Calif.; CG ELEctronics Corp., 15000 Central East, Albuquerque.

EDWIN F. GUTH COMPANY, 2615 Washington St., St. Louis, Mo.—John Allen Ware, Sr., 301 West G St., San Diego; John Allen Ware, Jr., 721 W Buchanan St., Phoenix; L. M. Baxter, Sr., 1238 N. W. Glisan St., Portland 9; W. D. Evans, c/o Pacific Industries, 8255 Beverly Blvd., Los Angeles 48. Gaer Sales, 1625 West 12th Ave., Denver.

H-B INDICATOR CO., 915 Terminal Sales Bldg., Seattle 1, Wash.

H-B INSTRUMENT CO., American and Bristol Sts., Philadelphia, Pa.—Oscar Hogenson, 95 Connecticut St., Seattle 4; Bellilove Co., 420 Market St., San Francisco 11, Calif.; J. A. Tudor & Assoc., 1004 S. E. Belmont, Portland; R. Sydney Hopkins, 15016 Ventura Blvd., Sherman Oaks, Calif.; Williamson Sales Co., P. O. Box 3275, Albuquerque.

HD ELECTRIC COMPANY, 760 Osterman Ave., Deerfield, Ill.—L. A. Nott, 1061 Howard St., San Francisco; T. S. Wood, 220 Ninth Ave., North, Seattle; J. E. Redmond, 625 W. Madison, Phoenix; W. D. Howze & Co., 5603 No. Figueroa St., Los Angeles 42; Mt. States Machinery, 1526 Blake St., Denver; Frank Gorman, 1701 Texas St., El Paso.

H & H FIXTURE CO., 1313 Walton Ave., St. Louis 13, Mo.—M. Levin, P. O. Box 1270, Portland; R. B. Haskell Co., 200 Davis St., San Francisco; R. A. Herren Co., Olympia, Wash.

H. L. CORP., 2480 E. 22nd St., Cleveland, Ohio — R. C. English & Assoc., 4229 122nd Ave. S. E., Bellevue, Wash., and Builders Exchange Bldg., Portland.

HAARTZ-MASON CO., Watertown, Mass.—Elec. Specialty Co., 158 Eleventh St., San Francisco; 2820 East 12th St., Los Angeles; 2406 1st Ave. So., Seattle; 2026 Arapahoe, Denver; 210 W. Adams, Phoenix; 1224 S. W. Morrison, Portland; 2588 Simpson, Salt Lake.

HABITAT, INC., 336 Third Ave., New York City — Robert Thallon, P. O. Box 937, Sta. A, San Mateo, Calif.; David M. Merrill, 192 N. 1st East, Farmington, Utah.

HAGEN MFG. CO., INC., 200 20th St., Moline, Ill.—Hundley Company, 3282 Fletcher Dr., Los Angeles; Peterson Co., 4949 Colorado Blvd., Denver; Campbell & George Co., 1601 Cortland Ave., San Francisco.

HALEY INTERNATIONAL CORPORATION, R. G., 767 Spitzer Bldg., Toleo, Ohio—R. G. Haley International Corp., Foot of Cornwall Ave., Bellingham, Wash.; R. & M. Sales, Denver, Colo.

HALO LIGHTING PRODUCTS, Chicago, Ill.—Guy de Leuze, 1923 Bryant St., San Francisco; Pete Bach Electric, 1233 N. W. 12th Ave., Portland.

HAMLIN, INC., Lake and Grove Sts., Lake Mills, Wis.— Walter W. Corman, 7432 W. 80th St., Los Angeles 45; McKnight Co., 1436 El Camino Real, Menlo Park, Calif.

HAMMEL-DAHL of General Controls—Bellilove Co., 420 Market St., San Francisco.

HAMPDEN ENGINEERING CORP., E. Longmeadow, Mass.—Garrison & Co., Builders' Exchange, 850 S. Van Ness, San Francisco 10.

HANCHETT MAGNA-LOCK CORP., Big Rapids, Mich. —Maddox Sales, 420 Market St., San Francisco; Maddox Sales Co., 914 E. Third St., Los Angeles 13.

HANDLEY-BROWN CO., 2101 Brooklyn Rd., Jackson, Mich.—See Airective Div., McGraw-Edison Co.

HANNIFIN CO., 501 S. W. If Rd., Des Plaines — Branch: 5827 W. Century Blvd.; Jack Ogle & Co., 2505 S. E. 11th Ave., Portland, and 105 Orcas St., Seattle; Landes, Zachary and Peterson Co., 601 S. Jackson, Denver.

HANOVIA LAMP DIV., Engelhard Hanovia, Inc., 100 Chesnut St., Newark 5, N. J.—Branch Office: 760 Market St., San Francisco; 1111 Wilshire Blvd., Los Angeles, and John Rankin, 5314 N. Stardust Road, LaCanada, Calif.

HARBINSON & CO., INC., James K., 420 Lexington Ave., New York, N. Y.—Paul S. Everly, 550 9th St., San Francisco.

HARDWICK, HINDLE, INC., 40 Hermon St., Newark 5, N. J.—W. R. Entrikin Co., P. O. Box 393, Balboa Island, Calif.; Bernard L. Cahn Co., 420 Market St., San Francisco; Ray Johnston, 1011 E. 69th, Seattle.

HARPER CO., H. M., 8200 Lehigh Ave., Morton Grove, Ill.—Branch Offices: 5600 West Centinela St., Los Angeles, and 3835 Piedmont Ave., Oakland 11, Calif. A. Roth, 1719 Boulder, Denver.

HARPER ELECTRIC FURNACE CORP., 110 Pearl, Buffalo 2, N. Y. — Lombard Smith Co., 714 W. Olympic Blvd., Los Angeles; T. C. Jarrett Co., 95 South Ammons St., Denver; H. E. Hartley Co., Boeing Field, Box 81, Seattle 8; John H. Lease, Box 246, Sta A, Palo Alto, Calif.

HARRINGTON COMPANY, THE, Gravers Road, Plymouth Meeting, Pa.—John C. Laing, 435 N. Tillamook, Portland 12; W. W. Abernathy, 4937 Valley Blvd., Los Angeles; S. H. Baldwin, P. O. Box 755, Los Gatos, Calif.

HART MANUFACTURING CO., 127 Bartholomew Ave., Hartford, Conn.—H. D. Campbell Co., 220 9th North, Seattle 9; Westron Sales & Eng., 7407 Melrose Ave., Los Angeles 46; Hytronic Measurements, Inc., 2022 S. Main St., Salt Lake City, 1295 S. Bannock St., Denver, and 211 Sierra South East, Albuquerque.

HARTMAN ELECTRICAL MFG. CO., 175 N. Diamond St., Mansfield, Ohio — Representing aircraft line: Air Supply Co., in following cities—9815 Wilshire Blvd., Beverly Hills, Calif., 201 Boren Ave. North, Seattle 9, 230 Town & Country Village, Palo Alto, Calif., 3380 Harbor Dr., San Diego 1, and 3311 S. Broadway, Englewod, Colo. Representing commercial line: Richard T. Puelicher, 3151 E. Colorado St., Pasadena 8; J. B. Hickman, 503 Maritime Bldg., Seattle 4.

HARVEY ALUMINUM, 19200 S. Western Ave., Torrance, Calif.—Branch Offices: 426 Olive St., San Diego, 2015 Center St., Berkeley, 550 Mercer St., Seattle.

HARTZELL PROPELLER FAN CO., South Downing St., Piqua, Ohio—Florentine & Co., P. O. Box 144, Santa Clara, Calif.; George W. Leseman & Co., 2325 Torrance Blvd., Torrance, Calif.; Standard Equipment Sales, 204 W. Lucile St., Seattle; Frontier Engineering Services Co., 81 E. 7th South, Salt Lake City; Alpine Steel Products Corp., 3414 Constitution, N. E., Albuquerque.

HATFIELD WIRE & CABLE CO., 487 Hillside Ave., Hillside, N. J.—The Curry Company, 190 Lombard St., San Francisco; Agencies Company, 836 Traction Ave., Los Angeles 13; Oregon Manufacturers' Agents, 327 N. W. 10th, Portland 9.

HATHAWAY INSTRUMENTS, INC., 5800 East Jewell, Denver 22, Colo.—Williams & Associates, Inc., 2263 S. Albion St., Denver 22; R. L. Pflieger Co. Inc., 1652 Laurel St., San Carlos, Calif.; Benno Persitz, 114 Garfield St., Seattle 9.

HAWS REFRACTORIES CO., 407 Main St., Johnstown, Pa.—E. A. Wilcox Co., 6436 E. Corvette, Los Angeles; 173 Utah Ave., So. San Francisco; Arctic Bldg., Seattle 4.

HAYDON CO., A. W., 232 N. Elm St., Waterbury, Conn.—TransDynamics Inc., in following cities: 4450 Lakeside Dr., Burbank, Calif.; 44 Encina Ave., Palo Alto, Calif.; 2866 Fourth Ave., San Diego; 1215 Poplar Place, Seattle 44; 3385 S. Bannock, Englewood, Colorado; Technical Electronics Corp., 4060 Ince Blvd., Culver City, Calif.

HAYS MFG. CO., 801 West 12th St., Erie, Pa.—Elky Ray, 806 S. Robertson Blvd., Los Angeles; Duane C. Lyle, 4085 Laguna Way, Palo Alto, Calif.; Frank Martin, 821 E. 86th St., Seattle.

HEALY-RUFF CO., Water Level Control Div., 2255 University Ave., St. Paul, Minn. — Waterworks Equipment Co., 502 West Third South, Salt Lake, Boise and Pocatello, Ida.; Carl F. Noel, 920 Grayson St., Berkeley 2; J. A. Tudor & Assoc., Portland and Seattle; Goble, Sampson & Smith, Inc., 5505 East Evans Ave., Denver 22; Central Telemetering & Control, 128 N. Farfield Ave., Monterey Park, Calif.

HEAT, Inc. of Spokane, East 9 Empire, Spokane, Wash.

HEATMORE, INC., 651 Driggs Ave., Brooklyn 11, N. Y.—J & H Sales Co., 8271 Melrose Ave., Los Angeles 46; Oregon Mfgrs. Agents, 317 S. W. Front Ave., Portland 4; Sam Miller, 3320 Forest St., Denver.

HEATUBE CORP., ALBION DIVISION, McGRAW-EDISON CO., 704 N. Clark St., Albion, Mich. — H. D. Campbell Co., 220 9th Ave., No., Seattle 9.

HEIM CORP., WARREN, 222 North Fifth Ave., Mt. Vernon, N. Y.—T. A. Ford Co., 402 Agostino Rd., San Gabriel, Calif.; Pacific Utilities Supply, 141 King St., San Francisco.

HEINEMANN ELECTRIC CO., Penna Ave. and Plum St., Trenton, N. J.—Northwestern Agencies, Inc., 4130 First Ave., South, Seattle; Don Porter, 1117 S. Robertson Blvd., Los Angeles; Paul A. Douden & Co., 1645 Wazee St., Denver 7; William Benndorf, 221 E. Camelback Road, Phoenix; Northwestern Agencies, 2941 N. W. Quimby, Portland 10; Campbell & George, 1601 Cortland Ave., San Francisco.

HEIN-WERNER CORP., 1200 National Ave., Waukesha, Wis.—Peterson Co., 3000 S. Broadway, Los Angeles 7; H. C. Babcock Co., 1122 12th St., Denver 4; Dirks & Co., 416 N. W. 14th St., Portland 9.

HELIPOT DIV. of BECKMAN INDUSTRIES, INC., 2500 Fullerton Road, Fullerton, Calif.—Samuel N. Stroum Co., 621 Michigan St., Seattle 22; 6224 E. Burnside, Portland 15; G. S. Marshall Co., 2065 Huntington Dr., San Marino, Calif.; 2015 El Camino Real, Redwood City, and 3525 Fifth Ave., San Diego; Allen I. Williams Co., 2263 South Albion St., Denver, Colo., 3221 Silver Ave., Albuquerque, and 320 E. 4th St., South, Salt Lake City.

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HELICOPTER CORP. OF AMERICA, 2519 Airport Ave., Santa Monica, Calif.—3501 West 21st South, Salt Lake City.

HELLER ROBERTS MFG. CORP., Heller Industrial Fastener Div., 6115 Carnegie Ave., Cleveland 3, Ohio—A. D. Moore, 1804 W. 8th St., Los Angeles; Fitzgerald Electro Mechanical Co., 143 Second St., San Francisco; A. & W. Sales Co., 2251 N. Interstate, Portland.

HELWIG COMPANY, 2250 No. 30th St., Milwaukee, Wis.—F. S. Fletcher, 4150 S. Main St., Los Angeles; H. E. Perkins, 422 N. W. 8th Ave., Portland; J. R. Christensen, 247 E. 5th St. South, Salt Lake City; M. G. Mueller, 1645 Blake St., Denver; H. W. Kuntz, 2132 W. Encanto Blvd., Phoenix; L. M. Alchimisti, 2505 Mariposa St., San Francisco; D. H. Perkins, 408 Occidental, Seattle.

HENDERSON ELECTRIC CO., 25 Greenwood Ave., East Orange, N. J.—George Gray Co., 2720 17th St., San Francisco; J. G. Pomeroy Co., 1004 E. 4th St., Los Angeles; Northwestern Agencies, Inc., 4130 First Ave. S., Seattle; J. R. Christensen Agency, 247 East 5th South, Salt Lake City; L. D. Hood Sales Agency, 87 S. Kalamath St., Denver.

HERSEY-SPARLING METER CO., 225 N. Temple City Blvd., El Monte, Calif—Branch Offices: 1299 Bayshore Highway, Burlingame, Calif.; 904-A Elliott Ave. W., Seattle, 5505 E. Evans Ave., Denver; Waterworks Equip. Co., 502 West Third St., Salt Lake City; Lewers & Cooke, Ltd., Honolulu, Hawaii.

HERTNER ELECTRIC CO., 12690 Elmwood Ave., Cleveland, Ohio—John Hyatt Co., 6059½ E. Olympic Blvd., Los Angeles 22; Howard Jordan, 1007 Grand Ave., Phoenix; Herbert Kaub, 1025 Santa Fe, Denver. Offices of Gould-National Batteries, Inc., 949 55th St., Oakland 8, 1973 N. W. Lovejoy St., Portland 9, and 415 So. 2nd East, Room 4, Salt Lake City 1.

HERWIG CO., 618 W. Elm St., Chicago 14, Ill.—Marshall Wells Co., 1420 N. W. Lovejoy St., Portland; Incandescent Supply, 647 Mission St., San Francisco; Hendrie & Bolthoff Co., 1635 17th St., Denver.

HETHERINGTON, INC., Folcroft, Pa.—Hetherington, Inc., 139 Illinois St., El Segundo, Calif.; G. R. McKnight, 1436 El Camino Real, Menlo Park, Calif.; Fred McDonald, 1622 100th Ave., N.E., Bellevue, Wash., Fryco, 355 N. Scottsdale Rd., Scottsdale, Ariz.

HEVI-DUTY ELECTRIC CO., 2040 W. Wisconsin Ave., Milwaukee 1, Wis.—Muth-Richards Co., 1604 Bush Place, Seattle 4; Donal Co., P. O. Box 7013, Portland 19; Elec. Eng. & Sales Corp., 106 E. Pierce St., Phoenix, Ariz.; Eichorn & Melchior, 932 Terminal Way, San Carlos, Calif.; Western Electro-Mech., 300 Broadway, Oakland; Sola Elec. Co., 2907 West Vernon Ave., Los Angeles; Ray J. Noel, 4315 So. Western Ave., Los Angeles; Clyde P. Elliott Co., 661 W. Delaware St., Denver; Douglas Bolton & Assoc., P. O. Box 79, Sugarhouse Sta., Salt Lake City.

HEWITT-ROBINS, INC., 664 Glenbrook Rd., Stamford, Conn.—A. B. Boyd Co., 1235 Howard St., San Francisco.

HEWSON CO., INC., 443 Broad St., Newark 2, N. J.—E. G. Paules, 1762 W. Vernon, Los Angeles; Fred A. Pease, 4921 E. 38th Ave., Denver 7; Redmond Supply Co., 625 W. Madison, Phoenix.

HEXACON ELECTRIC CO.,, 161 W. Clay Ave., Roselle Park, N. J.—Albert S. Knight Co., 2570 Magnolia Blvd., Seattle 99; Dillon Stevens & Co., 1348 Venice Blvd., Los Angeles, and 420 Market St., San Francisco; L. D. Bax, 714 Lincoln St., Denver 3.

HEXCEL PRODUCTS, INC. 2332 Fourth St., Berkeley, 10, Calif.—R. C. English, 4229 122nd St., S.E., Bellevue, Wash.; A. E. Lilly Co., 1029 Larkin St., San Francisco; Maddox Sales, 914 E. Third St., Los Angeles; McGillian Sales Co., 2224 San Mateo N. E., Albuquerque, N. M.; Stevens Sales, 1476 Major St., Salt Lake City; Ora Fleischer, 1700 15th St., Denver.

HEYMAN MFG. CO., Michigan Ave., Kenilworth, N. J.—Agencies Co., 836 Traction Ave., Los Angeles 13; Fisher Switches, Inc., 40 Gough St., San Francisco 3; Fred A. Pease Co., 4921 East 38th Ave., Denver 7.

HICKOK ELECTRICAL INSTRUMENT CO., 10561 Dupont Ave., Cleveland 8, Ohio—George Ksander, Mgr., Calif. Branch, 2585 Shattuck Ave., Berkeley 4; J. Walls, Mgr., 1607 El Central Ave., Los Angeles; Greeley, Colo.; E. Boring, 13128 S. E. Ash St., Portland 33; Gene Pietry, Factors Inc., 2030 Home Rule St., Honolulu, Hawaii. Sold through authorized distributors.

HIGHWAY TRAILER CO., 106 Water St., Stoughton, Wis.—W. H. Eddy Electric Products, Inc., 5153 N. 29th Ave., Phoenix; Four Wheel Drive Pacific Co., 850 Harrison St., San Francisco; Calavar Corp., 2700 S. Broadway, Los Angeles; Robblee Utilities Equip., 3423 Fourth Ave. So., Seattle; Century White Truck Co., Inc., Yellowstone Highway, Casper, Wyo.; MacDonald Equip. Co., 5300 Colorado Blvd., Denver; W. H. Pingree Co., 1035 So. 7th West St., Salt Lake City.

HILL TRANSFORMER CO., 1030 Washington St., San Carlos, Calif.—See H. K. Porter Co. Inc., Delta-Star Electric Div.

HIMCO—Hopfeld Industrial Mfg. Co., 734 A St., San Rafael, Calif.—Sold through Distributors and Direct.

HI-SCALE PRODUCTS CORP., 132 W. 22nd St., New York City—Northwest Sales Co., 1603 Northwest Johnson St., Portland 9; Eckert-Lloyd Co., 1950 Naomi St., Los Angeles, and 1225 6th St., San Francisco.

HITCHNER & HITCHNER, 517 S. First St., Sandpoint, Idaho.

HITEMP WIRES, INC. 1200 Shames Dr., Westbury, Long Island, N. Y.—Ray Johnston Co., 1011 East 69th, Seattle; Premmco, Inc., 5470 Valley Blvd., Los Angeles; Rowley-Bouvette, Inc., 651 S. Jason, Denver; James S. Heaton Co., 413 Lathrop St., Redwood City, Calif Factory in Monrovia, Calif.

HI-VOLTAGE EQUIPMENT CO., 4000 E. 116th St., Cleveland, Ohio—Paul A. Douden Co., 1645 Wazee St., Denver; Joslyn Pacific Co., 5100 District Blvd., Los Angeles; 180 Portrero Ave., San Francisco; 808 N. W. 16th Ave., Portland; 2424 First Ave., South, Seattle; 1427 E. 3045 South St., Salt Lake City.

HOBART BROTHERS CO., 1221 Hobart Square, Troy 1, Ohio—Sold through leading distributors all principal cities.

HOFFMAN ENGINEERING CORP., 9th and Tyler, Anoka Minn.—Western Reg. Office: Wm. J. Trenbeth, 8847 De Haviland St., Los Angeles 45; Donal Co., 3139 W. Altadena Terr., Portland; Muth-Richards Co., 1804 Bush Place, Seattle; Everett Vonier, Inc., 1160 Elati, Denver; J. Henry Jones Co., 120 Apricot Ave., Salt Lake City 16; W. A. Borden Co., 1813 San Lorenzo Ave., Berkeley.

HOGG & DAVIS, 2590 E. 67th St., Long Beach, Calif.—T. A. Ford, P. O. Box 268, San Gabriel, Calif.; A. B. Chance Co. offices in San Francisco and Los Angeles; W. H. Pingree Co., 1035 South 7th West St., Salt Lake City; Utility Truck Equipment Corp., 1950 31st St., Denver.

HOGGSON & PETTIS MFG. CO., 149 Brewery St., New Haven, Conn.—Wm. J. Ashton, 50 Hawthorne St., San Francisco.

HOLAN CORP., 4100 W. 150th St., Cleveland, Ohio —Branch Office: 3605 W. Clarendon St., Phoenix; Ralph Hopkins, 2082 Elm Grove Lane, San Jose, Calif.; Charles Armer, 3605 W. Clarendon, Phoenix.

HOLFAST RUBBER CO.—(See Dayton Rubber Co.)

HOLLINGSWORTH & VOSE CO., 112 Washington St., East Walpole, Mass.—Tri State Supply Corp., 544 South San Pedro St., Los Angeles; 554 Bryant St., San Francisco 7; Dougherty Enterprises, 149 Kaimi St., Kailua, Hawaii.

HOLOPHANE CO., INC., 342 Madison Ave., New York City 17—Robert G. Dummel, 115 New Montgomery St., San Francisco 5, Calif.; J. J. McCullough, 26491 Tyrrell Ave., Hayward, Calif.; Paul Davis, 2741 Marine Drive, Bremerton, Wash.; J. G. Platt, 3216 Oakshire Drive, Los Angeles 28, Calif.; F. Sliney, 617 Ocean Ave., Santa Monica, Calif.; H. E. Gypson, 6262 Crestview Ave., Littleton, Colo. Distributing Outlets: General Electric Supply Co., Westinghouse Electric Supply Co., Graybar Electric Co., in all principal cities, California Elec. Sup. Co., San Francisco, Calif.; The Central Elec. Supply Co., Denver, Colo.; Columbia Elec. & Mfg. Co., Spokane, Wash.; Eoff Elec. Supply Co., Portland, Ore.; Love Electric Co., Tacoma, Wash.; North Coast Elec. Co., Seattle, Wash.; Stewart Elec. Supply Co., Bakersfield, Calif.; State Elec. Supply Co., Albuquerque, N. M. (See ad, p. 39)

HOLUB INDUSTRIES, INC., Sycamore, Ill.—F. M. Nicholas Co., 72 Townsend St., San Francisco; Bruce-Emmett Co., 830 S. E. Alder, Portland, and 1016 First Ave., Seattle; E. T. Vonier, 1160 Elati St., Denver; John M. Fincke Co., 1848 N. Main St., Los Angeles; Darger Co., 211 S. 2nd West St., Salt Lake City.

HOMELITE DIV., TEXTRON, INC., Riverdale Ave., Port Chester, N. Y.—Branch Offices: 3000 W. Valley Blvd., Alhambra, Calif.; 727 Airport Blvd., South San Francisco; 2308 Ventura St., Fresno; 2234 Auburn Blvd., Sacramento; 1911 22nd Ave. S., Seattle; East 3927 Trent Ave., Spokane; 3463 S. E. Milwaukie Ave., Portland; 7440 Highway 91, North Salt Lake City; 1040 10th St., Denver.

HOPAX ELECTRIC, INC., 547 Greenwich St., New York City—H. G. Rising, Inc., 151 N. Vermont Ave., Los Angeles.

HOPE ELEC'L PRODUCTS CO., 57 Long Ave., Hillside, N. J.—R. C. English & Associates, Builders Exchange Bldg., Portland, and 4229 122nd St. S. E., Bellevue, Wash.; Walter Wallace Co., 435 Bryant St., San Francisco 7; Robert M. Schow, 926 S. Atlantic Blvd., Los Angeles 22; L. D. Hood Sales Agency, 87 S. Kalamath St., Denver; Marshall R. Elmore & Co., 1011 Richard St., Carlsbad, N. M. (See ad, p. 15)

HOPE WEBBING CO., Providence 1, R. I.—C. D. LaMoree, 2433 Birkdale, Los Angeles; 2221 4th, Berkeley; 317 N. W. Broadway, Portland; 166 Jackson St., Seattle.

HOPFIELD INDUSTRIAL MFG. CO.—See HIMCO.

HOSKINS MFG. CO., 4445 Lawton, Detroit, Mich.—E. A. Wilcox Co., 173 Utah Ave., So. San Francisco, and 6436 E. Corvette St., Los Angeles 22; E. A. Wilcox, Arctic Bldg., Seattle 4.

HOUGHTON & CO., E. F., 1500 Davidson St., San Francisco, Calif.—Branch Offices: 90 Dearborn St. Seattle; 400 Concord Bldg., Portland, and 2445 E 26th St., Los Angeles 28.

HOUSE-O-LITE CORP., 2430 So. Ashland Ave., Chicago, Ill.—Anderson-O'Donnell, 680 Delaware, Denver; Pete Bach Electric Co., 1233 N.W. 12th Ave., Portland; Charles B. Gratiot Co., 1282 Folsom St., San Francisco; Highland Sales, 1215 Pitt St., Albuquerque, N. M.; Lyle Heston, 3508 88th Ave. S.E., Medina, Wn.

HOWARDUCT DIV. NAT'L SUPPLY CO., Melrose Park, Ill.—(See Nat'l Supply Co.)

HOWARD INDUSTRIES, INC., 1760 State St., Racine, Wis.—Branch: 942 South LaBrea, Los Angeles; G. J. Nelson Co., 710 E. Louisiana, Denver.

HOWELL ELECTRIC MOTORS CO., 409 N. Roosevelt Ave., Howell, Mich.—Control Switches, Inc., 6241 West 89th St., Los Angeles 45; D. R. Dalton Assoc., 1037 Laurel St., San Carlos, Calif.; W. G. Ballantyne, 1224 Southwest Morrison, Portland 5; Tempco Sales Corp., 1945 So. 11th St. East, Salt Lake City 5.

HOYT ELECTRICAL INSTRUMENT WORKS (Burton Rogers Co.), Sales Division, 42 Carlton St., Cambridge, Mass.—H. A. Shoemaker, 1127 Wilshire Blvd., Los Angeles; R. E. Ryberg, 2612 W. Armour Seattle; James H. Dolliver, 1750 Oneida St Denver 7.

HUB ELECTRIC CO., 2255 W. Grand Ave., Chicago, Ill.—James Mundstock, 417 Market St., San Francisco 5; Wm. A. McGuire, 164 So. Central Ave., Los Angeles; J. R. Penning, 2323 Second Ave., Seattle 1; Glenn B. Baer, 1625 West 12th Ave., Denver 4; Ray Wendling Co., Box 3721, Phoenix; R. L. Brewer, 100 So. El Paso St., El Paso.

HUB ELECTRIC MFG. CO., 523 Medford, Charlestown, Mass.—Fete Bach Electric, 1233 N. W. 12th Ave., Portland; M-C International Co., 717 Market St., San Francisco; Herbert Leib, 2759 Dunleer Place, Los Angeles.

HUBBARD AND COMPANY, 200 South Michigan Ave., Chicago 4, Ill.; 1250 45th St., Emeryville 8, Calif.—West Coast Factory, Warehouse and Office: R. M. Waggoner, Vice President L. T. Owen, Gen. Mgr. and Sales Mgr., Pacific Coast Region, 1250 45th St., Emeryville 8, Calif.; N. V. Arntzen, Dist. Sales Mgr., 416 West 8th St., Los Angeles 14, Calif. (covers Southern California; Arizona; Clark County, Nevada); H. R. Edwards, Jr., Dist. Sales Mgr., 1250 45th St., Emeryville 8, Calif. (covers Northern California; Western Nevada); A. C. Mowery, Dist. Sales Mgr., 271 S. W. Glenmorrie Rd., Oswego, Ore. (covers Oregon; Washington, and Alaska); V. E. Lown, Dist. Sales Mgr., 95 East 1st No., Salt Lake City 16, Utah (covers Idaho; Utah; Eastern Nevada; Montana; Western Wyoming). Distributors: General Electric Supply Company, Graybar Electric Company, all principal cities; Mine and Smelter Supply Company, Salt Lake City, Utah, Denver, Colo.; Honolulu Electrical Products Company, Ltd., Honolulu, Hawaii.

HARVEY HUBBELL, INC., State St. and Bostwick Ave., Bridgeport, Conn.—(Products sold through authorized electrical distributors.) Branch Offices: Grover A. Andersen, 1675 Hudson Ave., San Francisco 24; Berger Benson, Jr., 5025 "J" Parkway, Sacramento; Robert T. Flynn, 985 Via Honda San Lorenzo; Rolan L. Settles, 254 Lassen Ave. Mt. View; A. M. McMillan, 121 W. Elmra St., Los Angeles 12; Walter C. Haffner, 3773 Willowcrest Ave., No. Hollywood; Stuart E. Pentz, 5615 Valley Glen Way, Los Angeles 43; Arthur B Wells, 4904 Casa Drive, Tarzana; James I. Jeffers 761 Blackthorn St., El Cajon (near San Diego); Paul A. Douden, 1645 Wazee St., Denver 2; Frank A Strohecker, 218 Eyres Bldg., Seattle; D. J. Morris, 218 Eyres Bldg., Seattle; Elmer Johnston, 307 Hyde Bldg., Spokane; Frank M. Strohecker, 218 Eyres Bldg., Seattle; David King, 202 Regal Bldg. Portland, Ore. (See ad, p. 23)

HUBBELL CORP., Hawley Road, Mundelein, Ill.—C & S Equip. Co., 2103 S. San Pedro St., Los Angeles; H. W. Baker Co., 288 7th St., San Francisco; A. E. Edwards Co., 1108 Willard Ave., Seattle 99; McCartney-Denver Co., 1660 11th St. Denver 4.

HUENEFELD CO., 2701 Spring Grove Ave., Cincinnati 25, Ohio—Pacific Electric Sales, 140 S. E 28th, Portland.

HUGHES BROTHERS, INC., Seward, Neb.—Maydwell & Hartzell, Inc., 870 Tennessee St., San Francisco; 427 W. 5th St., Los Angeles 13; 2318 N. W. Vaughn, Portland; 803 W. Jackson, Medford; 110 East 6th St., Tucson; 121 S. Monroe, Spokane; 306 Dexter Ave., Seattle 4; 120 South 29th St., Phoenix; Sales Engineers, 211 Wazee Market, Denver.

HUGHEY & PHILLIPS, INC., 3200 N. San Fernando Blvd., Burbank, Calif.—Direct from factory.

HULLHORST TOOLS, INC., 1915 Nebraska Ave., Toledo, Ohio—Richardson Electric Co., 9820 23rd Ave. N. W., Seattle 7; J. R. Christensen, 247 E. 5th S St., Salt Lake City; Electrical Specialty Co., 2026 Arapahoe, Denver.

HUNTER DIVISION, ROBBINS & MYERS, INC., 2500 Frisco Ave., Memphis, Tenn.—George F. Sleight, Western Area Sales Mgr., 7755 Paramount Place, Pico Rivera, Calif.; W. O. Proby & Assoc., 1308 N.W. Everett, Portland 9 and 2915 13th Ave., S.W., Seattle 4; John Allen Ware and Assoc., 717 W. Buchanan St., Phoenix; W. G. Cline, 4500 Kalamath, Denver; Edward L. Peterson, 709 Bank of America Bldg., San Diego; Fred E. Reck, 126 25th Ave., San Mateo.

HUSKY PRODUCTS, INC., 5300 Vine St., Cincinnati 17, Ohio—Earl S. Condon Co., 3450 Wilshire Blvd., Los Angeles 5; George E. Honn Co., 560 3rd St., San Francisco 11; Shaffer & Nelson, Inc., 1001 Southeast Water Ave., Portland, 1415 South Main St., Salt Lake City 15, 312 Occidental Ave., Seattle 4, and West 1835 Broadway, Spokane 10.

HYKON MFG. CO., 163 E. State St., Alliance, Ohio —Fred D. Benz Co., 520 4th St., San Francisco; J. G. Pomeroy Co., 1004 E. Fourth, Los Angeles.

HYNES ELECTRIC HEATING DIV., Turbine Equip. Co., Sheffield St., Mountainside, N. J.—Contractors Equip. & Supply Co., 707 Broadway, N. E., Albuquerque; De Laval Pacific Co., 201 E. Millbrae Ave., Millbrae, Calif.; Heat Engineering & Sup. Co., 213 E. Valley Blvd., San Gabriel, Calif.; Landes, Zachary & Peterson, 275 Kalamath St., Denver; Western Const. Equip. Co. Great Falls and Billings, Mont.

IDAHO POLE CO., Sandpoint, Ida.—Branch Office: Bozeman, Mont.

IDEAL ELECTRIC & MFG. CO., East First St., Mansfield, Ohio—Central Station Equip. Co., 2323 Aviation Highway, Tucson; W. E. Starr & Co., 926 S. Atlantic Blvd., Los Angeles; Artwel Electric, Inc., 1485 Bayshore Blvd., San Francisco; D. McGarry, 604 Utah Ave., Butte; Frank G. Perri, 935 Northwest 12th Ave., Portland 9; Nickerson Pump & Mach. Co., Inc., 158 W. 4th South, Salt Lake City; Carlson Sales, Inc., 1201 Dexter Ave., Seattle.

IDEAL INDUSTRIES, INC., 1042 Park Ave., Sycamore, Ill.—Products available from electrical distributors; C. D. Belt & Co., 2149 So. Clarmont, Denver; L. M. Slusser, 318 Dooly Block, Salt Lake City, Utah; Northwestern Agencies Inc., 4130 First Ave. S., Seattle, and 2941 N. W. Quimby, Portland; Maddox Sales Co., 420 Market St., San Francisco; Maddox Sales Co., 914 E. 3rd St., Los Angeles.

IDEAS, INC.—CMG INDUSTRIES, 214 Ivinson, Laramie, Wyo.—Arthur & Allen, 420 Market St., San Francisco; Krause Engineering, 741 E. Artesia, Long Beach, Calif.; Clinton F. Levings, P. O. Box 3321, Tacoma 99, Wash.

ILG ELECTRIC VENTILATING CO., 2850 N. Pulaski Rd., Chicago 41, Ill.—Branch Offices: 1709 W. 8th St., Los Angeles; 55 New Montgomery, San Francisco; 7331 W. Greenlake Way, Seattle; 914 W. Madison St., Phoenix; 1216 Santa Fe Dr., Denver 4; 1476 Major St., Salt Lake City; 10338 N. E. Sandy Blvd., Portland; 305 Canal St., El Paso; Lefler Eng. Sales, 108 N. 23rd, Billings, Mont.; R. E. Tweedy, 356 E. Alvarado, Phoenix.

ILLINOIS CONDENSER, 1610 N. Throop St., Chicago 22, Ill.—Bernard L. Cahn Co., 420 Market St., San Francisco.

ILLINOIS EDISON PORCELAIN DIV., McGraw-Edison Co., Pearl St., Macomb, Ill.—(For special porcelain only) Thomas W. Fyles, 353 S. Curson Ave., Los Angeles—Check Line Material Industries for listing on Standard Line.

ILSCO CORP., 4730 Madison Road, Cincinnati, Ohio —Maddox Sales Co., 914 E. 3rd St., Los Angeles 13; John Maddox Co., 420 Market St., San Francisco 11; John Ormond, 600 16th St., Oakland; Fred Staible, 2046 Arapahoe, Denver, Colo.

IMPERIAL LIGHTING CO., Latrobe, Pa.—L. D. Wilson, P. O. Box 726, Glendora, Calif.; Kenneth B. Schumann Co., 1073 Galapago, Denver; P & G Associates, 11050 S. E. 30th, Seattle.

INDIANA COMMERCIAL FILTERS CORP., Lebanon, Ind.—Montgomery Brothers, Inc., in following cities: 1112 Howard St., San Francisco, 4800 District Blvd., Los Angeles, 1632 N. W. Johnson, Portland, 911 Western, Seattle, 5103 N. Hawthorne, Spokane, and 1331 T St., Sacramento.

INDIANA STEEL WIRE CO., INC., 700 S. Council, Muncie, Ind.—Graybar Electric Co., Inc., in all principal cities. (See ad, p. 50)

INDUSTRIAL ELECTRIC MFG. CO., R. R. 1, Box 102, Mission San Jose, Calif.—Bergman-Marshall Co., Inc., 1370 Van Dyke Ave., San Francisco.

INDUSTRIAL ELECTRICAL WORKS, 1509 Chicago St., Omaha, Neb.—Crane Veyor Corp., 1240 S. Boyle Ave., Los Angeles; Rundel Elec. Co., 230 Adrian Rd., Millbrae, Calif.; State Elec. Supply Co., Box 133, Albuquerque, N. M.—Star Machinery Co., 241 Lander St., Seattle.

INDUSTRIAL ENGINEERING & EQUIPMENT CO., 24 Hanley Industrial Ct., St. Louis 17, Mo.—Earl C. Call Assoc., 1485 Bayshore Blvd., San Francisco; A. C. Baechlin Co., Scottsdale, Ariz.; CBA Co., 1480 Hoyt St., Denver; Nelson English, 1231 N. W. Hoyt St., Portland; R. C. English, 4229 122nd St., S. E., Bellevue, Wash.; Fuel Eng. Corp., 22030 Edgar St., Torrance, Calif.; G. J. Yamas Co., P. O. Box 5216, Sacramento, 667 Howar dSt., San Francisco, and 1621 East Belmont, Fresno, Calif.

INDUSTRIAL MICA CORP., 233 S. Van Brunt, Englewood, N. J.—Yarbrough Sales Co., 192 E. Glenarm St., Pasadena, Calif.

INDUSTRIAL SAFETY BELT CORP., 568 S. Aiken, Pittsburgh, Pa.—Wayne C. Wells, 6055 N. E. Glisan, Portland; Armite Laboratories, 6609 Broad, Los Angeles; Wm. Peyser, Jr., 1506 N. Weber, Colorado Springs, Colo.

INDUSTRIAL TAPE CORP., New Brunswig, N. J.—(See Permacel Tape Corp.)

INDUSTRIAL TIMER CORP., 1407 McCarter Highway, Newark, N. J.—E. V. Roberts & Associates, 5068 W. Washington Blvd., Los Angeles; 1560 Laurel St., San Carlos; 909 N. First St., Phoenix, and 4379 30th St., San Diego; C. B. Parsons, 3028 First Ave., Seattle; Hyde Electronics Co., 888 Lipan St., Denver 23.

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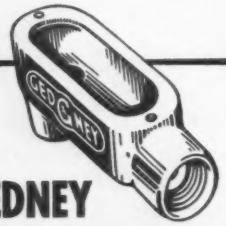

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INERTIA SWITCH, INC., 311 West 43rd St., New York 36, N. Y.—Joe Davidson and Assoc., P. O. Box 108, South Gate, Calif.

INGERSOL RAND, Phillipsburg, N. J.—Branch: 350 Brannan St., San Francisco.

INLAND GLASS WORKS, 825 26th St., LaGrange Park, Ill.—Guy deLeuze Co., 1923 Bryant St., San Francisco.

INSTRUMENT LABORATORY, INC., 934 Elliott Ave. W., Seattle 99, Wash.—Branch Office: 1316 S. E. 7th, Portland.

INSUL-8-CORP., 1369 Industrial Road, San Carlos, Calif.—Industrial Products Co., 2911 First Ave. So., Seattle 4; J. A. Tudor & Associates, Inc., 1004 S. E. Belmont St., Portland 14; Fletcher Sales, 2216 Fifth St., Berkeley 10; C. H. Curriet Co., 2368 East Foothill Blvd., Pasadena, Calif.

INSULATED DUCT & CABLE CO., Stokes Ave., Trenton, N. J.—Hodges & Glomb, 921 Bryant St., San Francisco; Albert S. Knight Co., 3010 Western Ave., Seattle.

INSULATION MANUFACTURERS CORPORATION, 565 W. Washington Blvd., Chicago 6, Ill. — Electrical Specialty Co., 2820 E. 12th St., Los Angeles 13, Calif.; 158 11th St., San Francisco 3, Calif.; 2026 Arapahoe, Denver 2, Colo.; 1822 N. W. 25th Ave., Portland 9, Ore.; 2442 First Ave. S., Seattle, P. O. Box 232, Phoenix; Tri-State Supply Corp., 544 S. San Pedro, Los Angeles 13; 554 Bryant St., San Francisco 7; Western Fibrous Glass Products Co., 739 Bryant St., San Francisco, and 4432 Fruitland Ave., Los Angeles 23; Insulation & Wires, Inc., 6415 E. Fleet St., Los Angeles; 1112 N. W. 19th Ave., Portland 12, and 310 Shaw Rd., San Francisco; J. R. Christensen Agency, 247 E. 5th St., Salt Lake City; Electric Motor Supply, 1646 Blake St., Denver; C. E. Riggs, 317 N. W. Broadway, Portland; Blackwood's, Inc., Div. H. I. Thompson Fiber Glass Co., 3609 Olympic Blvd., Los Angeles 23.

INSULATION & WIRES, INC., 3435 Chateau, St. Louis, Mo.—Branch Offices: 6415 E. Fleet St., Los Angeles 22, 310 Shaw Road, South San Francisco, and 1112 N. W. 19th Ave., Portland 9.

INTERLECTRIC CORP., P. O. Box 239, Warren, Pa.—Guy deLeuze, 1923 Bryant St., San Francisco.

INTERMATIC TIME SWITCH DIV. of International Register Co., 2620 W. Washington Blvd., Chicago, Ill.—Keeler White Co. (in following cities): 615 7th St., San Francisco; 523 N. W. Everett, Portland; 1041 6th Ave. So., Seattle; The McLoughlin Co., 811 E. 14th Place, Los Angeles; Shefler & Kahn, 240 So. 1st Ave., Phoenix; E. T. Vonier Co., 1160 Elati, Denver; J. R. Christensen Agency, 247 E. 5th St., Salt Lake City.

INTERNATIONAL FERMONT MACHINERY CO., Ramapo, N. Y.—Ray L. Martin & Son, 725 N. E. 25th Ave., Portland 7.

INTERNATIONAL GRAPHITE & ELECTRODE DIV., Speer Carbon Co., St. Mary's, Pa.—E. A. Wilcox Co., 277 Seventh St., San Francisco 3; 6436 E. Corvette St., Los Angeles 22; 915 Arctic Bldg., Seattle 4.

INTERNATIONAL METAL PRODUCTS CO., 500 S. 15th St., Phoenix, Ariz. — Don Smith, P. O. Box 1712, Phoenix; Ray Morey, 2452 Micheltorena, Los Angeles 39; A. Meng, 930 17th St., Denver; A. G. Dalla Poza, 6112 Rainier Ave., Seattle 18; Philip Cantrell, 798 S. Jasmine, Denver; K. Leathers, 9001 Creekford Rd., Lakeside, Calif.; Al Cornwall, 2012 W. Claremont, Phoenix; Bud Schuman, 3229 E. Claredon, Phoenix; Ralph Pierce, 4405 N. 18th St., Phoenix.

INTERNATIONAL NICKEL CO., INC., 67 Wall St., New York City 5—Pacific Metals Co., Ltd., 1900 3rd St., San Francisco, 2187 S. Garfield Ave., Los Angeles, 1533 India St., San Diego; Eagle Metals Co., 4755 1st Ave. S., Seattle, 2336 N. Randolph Ave., Portland, and Helena at Broadway, Spokane; Metal Goods Corp., 4343 Holly St., Denver.

INTERNATIONAL OIL BURNER, ELECTRIC DIV., 3804 Park Ave., St. Louis, Mo.—Wayne C. Wells Co., 6055 N.E. Glisan, Portland 13.

INTERNATIONAL RECTIFIER CORP., 233 Kansas St., El Segundo, Calif.—Representatives: Allen I. Williams, 2263 So. Albion St., Denver 22 and 3221 Silver S.E., Albuquerque; Eichorn & Melchoir, 932 Terminal Way, San Carlos, Calif.; Ed. Foley & Assoc., 3840 N. Jokake Dr., Scottsdale, Ariz.; Fred H. Haight Co., 3212 Eastlake Ave., Seattle 2. (See ad, p. 99)

INTERNATIONAL REGISTER COMPANY, 2620 W. Washington Blvd., Chicago 12, Ill.—(See Intermatic Time Switch Div.)

INTERNATIONAL TRANSFORMER CORP., 8208 E. Whittier Blvd., Montebello, Calif.—The Curry Co., 190 Lombard St., San Francisco; P. E. Golsan, 301 Pasadena Ave., South Pasadena, Calif.; J. H. Stumph, 1000 4th Ave., South, Seattle 4; Wine & Wendling, P.O. Box 3721, Phoenix; H. D. Kron, 836 Ocean View Dr., Honolulu 16, Hawaii.

INTERSTATE DROP FORGE CO., Special Products Div., 4051 N. 27th St., Milwaukee, Wis.—K. M. Ryals Co., 9 First St., San Francisco; H. M. Denny Co., 3410 16th Ave. West, Seattle 99; A. T. Toms, P. O. Box 315, Salt Lake City; H. C. Guire, 715 S. York, Denver 9; T. D. McGarry, 604 Utah Ave., Butte, Mont.; L. R. Phillips, 5603 N. Figueroa St., Los Angeles.

IRVINGTON VARNISH & INSULATOR DIV., Minnesota Mining & Mfg. Co., 900 Bush Ave., St. Paul 6, Minn.—Minnesota Mining & Mfg. Co., 320 Shaw Rd., So. San Francisco, 6023 S. Garfield Ave., Los Angeles, 3663 First Ave., Seattle; J. R. Christensen Agency, 247 East 5th South, Salt Lake City.

IRWIN AUGER BIT CO., Wilmington, Ohio—H. M. Pforsich Co., 1355 Market St., San Francisco, 2343 Saybrook Ave., Los Angeles 22, and 400 Boren Ave. No., Seattle; Lawrence B. Stuart, Ltd., 1216 Kapiolani Blvd., Honolulu.

I-T-E CIRCUIT BREAKER CO., 19th and Hamilton Sts., Philadelphia, Pa.—District Offices: Western Reg. Mgr., Robert G. Petersen, San Francisco 5; 230 Ryan Way, So. San Francisco; 655 Broadway, Denver, 1921 East 7th St., Los Angeles 22, 2727 N. Central, Phoenix; 1010 S. W. 14th St., Portland, and 910 5th Ave., Suite 300, Seattle; Riter Engineering Co., 1369 Major St., Salt Lake City 1, Utah; R. L. Brewer Co., Inc., 100 S. El Paso St., El Paso; R. E. McDonough Co., 829 Maryland Ave., Butte, Mont.

I-T-E GREENSBURG DIV., Greensburg, Pa. — Same offices as I-T-E Circuit Breaker.

ITT-KELLOGG, Chicago, Ill.—Maydwell & Hartzell, Inc., in following cities: 870 Tennessee St., San Francisco 7, 427 West 5th St., Los Angeles 13, 5823 Henley Dr., San Diego, 120 S. 29th St., Phoenix, 2318 N. W. Vaughn St., Portland, 803 W. Jackson St., Medford, 306 Dexter Ave., Seattle 9, 121 S. Monroe St., Spokane 8, and 110 East 6th St., Tucson.

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ITT COMPONENTS DIVISION, 100 Kingsland Rd., Clifton, N. J.—Branch: 225 Santa Monica Blvd., Santa Monica, Calif.

JACK (BILL) SCIENTIFIC INST. DRILL DIV., 143 S. Cedros St., Solana Beach, Calif.—Nourse Equip. Co., 2300 Fourth St., Berkley, Calif.

JACKSON ELECTRICAL CO., 900-910 W. Van Buren St., Chicago 7, Ill.; Pete Bach Electric, 1233 N. W. 12th Ave., Portland 9.

JACO PRODUCTS, 2150 St. Clair Ave., Cleveland, Ohio—Harry E. Marshall, 104 Olive St., San Francisco 9.

JANCO CORP., 3111 Winona Ave., Burbank, Calif.—Norwest Co., 210 N. 36th St., Seattle; Paul Hildebrand, 6132 Tarragona Dr., San Diego; Artwel Elec., Inc., 1485 Bayshore Blvd., San Francisco.

JANETTE MANUFACTURING CO., Lehigh at Main, Morton Grove, Ill. — Branch: 36 Second St., San Francisco; Electric Motor Eng. Co., 8255 Beverly Blvd., Los Angeles; Norman Rupp Co., 103 S. W. Front Ave., Portland; Felix Simon, Box 614, Denver; J. W. Reynolds Co., 1481 S. Main, Salt Lake City.

JAY LIGHTING MFG. CO., INC., 25 Quincy St., Brooklyn, N. Y.—John Brill, 1216 Justin Ave., Glendale, Calif.; Pete Bach, 1233 N. W. 12th Ave., Portland; Lyle Heaton, 520 76th Ave. N. E., Medina, Wash.; John Roth, 5500 E. 33rd Ave., Denver.

JEFFERSON ELECTRIC CO., 25th and Madison, Bellwood, Ill.—J. G. Pomeroy Co., 1004 E. 4th St., Los Angeles; F. C. Scharr, 1500 Westlake Ave., No., Seattle; Hodges & Glomb, Inc., 921 Bryant St., San Francisco; E. T. Vonier Co., 1160 Elati, Denver 3; L. O. Dugan, 12211 Riverside Dr., No. Hollywood, Calif.; Darger Co., 211 So. 2nd West, Salt Lake City.

JELLIFF MFG. CO., THE C. O., Southport, Conn. — Elecrtical Specialty Co. in following cities: 158 Eleventh St., San Francisco 3, 2820 E. 12th St., Los Angeles 23, 2026 Arapahoe St., Denver 5, 212 Northwest 14th Ave., Portland 9, 2406 First Ave. S., Seattle 4, and P. O. Box 232, Phoenix.

JENN AIR PRODUCTS CO., INC., 1102 Stadium Dr., Indianapolis, Ind.—E. C. Cooley Co., 1186 Folsom St., San Francisco; Herlin Eng. Co., 1601 Bassett Ave., El Paso; A. A. Maycock Co., 330 W. 7th S., Salt Lake City; Air Purification Co., 4775 Fox St., Denver; Wm. S. Turner Co., Pacific Bldg., Portland; Paul E. Bradfield Co., 864 Robertson Blvd., Los Angeles; John L. Harvey Co., 121 S. Monroe St., Spokane; Merrill N. Musgrave & Co., 2019 Third Ave., Seattle; Hennesy Equip. Sales Co., 4808 N. 7th Ave., Phoenix.

JENNINGS RADIO MFG. CORP., 970 McLaughlin, San Jose, Calif.

JENSEN MFG. CO., 6601 S. Laramie Ave., Chicago, Ill. — R. G. Bowen, 721 S. Broadway, Denver; George S. Tivy, 2230 W. 11th St., Los Angeles 6; Shefler-Kahn Co., 240 S. First Ave., Phoenix; Sinai-Johnson, Inc., 845 Jessie St., San Francisco.

JERROLD ELECTRONICS CORP., 15th and Lehigh, Philadelphia, Pa.—Don H. Burcham, 510 N. W. 19th Ave., Portland; David Ross Co., 534 El Camino Real, San Carlos, Calif., 12106 E. Firestone Blvd., Norwalk, Calif.

JET LINE PRODUCTS, INC., 615 Fugate Ave., Charlotte, N. C.—Lippincott Co., 1355 Market St., San Francisco, 1052 West 6th St., Los Angeles and P. O. Box 17173, Salt Lake City; Ralph L. Millie, P. O. Box 4718 Park Hill Sta., Denver; Vernon B. Cebb, 2516 Minor No., Seattle.

JOHNS-MANVILLE, 22 E. 40th St., New York City 16—Johns-Manville Sales Corp.: 116 New Montgomery St., San Francisco 5; 430 40th St., Oakland 9, Calif.; 1755 Glenarm Pl., Denver 2; 507 Deely Bldg., Salt Lake City; 611 S. Catalina St., Los Angeles 5; 4303 Stone Way, Seattle 3.

JOHNS-MANVILLE DUTCH BRAND DIVISION, 7800 Woodlawn Ave., Chicago, Ill. — Branch Offices: 611 S. Catalina, Los Angeles, and 116 New Montgomery St., San Francisco; M. H. Klinger Co., 2366 Eastlake Ave., Seattle.

JOHNSON BRONZE CO., 475 Mill St. So., New Castle, Pa.—Electric Motor Supply Co., 1646 Blake St., Denver.

JOHNSON TOOL CO., 207 Robie Drive, Auburn, Calif.—Western Welding Works, 5946 Don Way, Carmichael, Calif.; Miners Foundry, Spring St., Nevada City, Nev.; Timothy Kaarto, 1753 Virginia St., Berkeley 3, Calif.

JONES, HOWARD B., Div. Cinch Mfg. Corp., 1026 S. Homan Ave., Chicago, Ill.—Branch Offices: 1709 W. 8th St., Los Angeles.

JORDAN INDUSTRIES INC., 3030 N.W. 75th St., Miami 47, Fla.—Rutkin Electrical Sales, 744 Kohler St., Los Angeles.

JOSLYN MFG. & SUPPLY CO., 155 N. Wacker Drive, Chicago, Ill.—Branch Offices: Joslyn Pacific Co., 5100 District Blvd., Los Angeles; 180 Potrero Ave., San Francisco; 2424 First Ave. So., Seattle; 808 N. W. 16th St., Portland; 560 Gale St., Salt Lake City; 2035 W. McDowell Rd., Phoenix. Sold through Electrical Distributors all principal cities.

JOY MFG. CO., Electrical Products Div., 1201 Macklind Ave., St. Louis 10, Mo.—Branch: Compton, San Francisco, Los Angeles, Denver, El Paso, Salt Lake City, Butte, Kellogg, Ida., Spokane, Portland, and Seattle. **Distributors:** Phillips & Edwards, 265 Vermont St. San Francisco; North Coast Electric, 171 Jackson St., Seattle 4; Tinling & Powell, E. 706 Sprague Ave., Spokane; Graybar Electric Co., 1750 Alameda St., San Francisco, 210 Anderson St., Los Angeles, and King and Occidental Sts., Seattle. Agents: Norman R. Schultz Co., 4227 Airport Way, Seattle, Wash.

K-E SALES CORPORATION, P. O. Box 2228 Gardner St. Sta., St. Louis, Mo.—Steve Babcock, 3573 Pierce St., San Francisco 23; R. C. English & Associates, 4229 122nd Ave., S. E., Bellevue, Wash.

KPF ELECTRIC CO., 1624 East Alpine Ave., Stockton 3, Calif.

KAHN AND CO. INC., P. O. Box 516-T, Hartford, Conn.—J. C. McDougall Co., 520 First Ave., South, Seattle 4.

KAISER ALUMINUM & CHEMICAL SALES, INC., Electrical Conductor Div., General Sales Office, Kaiser Center, Oakland, California—Western Branch Offices at 1220 S. W. Morrison St., Portland; W. 601 Riverside, Spokane; Statler Center, 900 Wilshire Blvd., Los Angeles; 655 Broadway, Denver; 213 N. First Ave., Phoenix; 438 Olive St., San Diego; 360 22nd St., Oakland 12; 910 5th Ave. Seattle 4; Maydwell & Hartzell, Inc., in following cities: 870 Tennessee St., San Francisco 7, 427 West 5th St., Los Angeles 13, 5823 Henley Dr., San Diego, 120 South 29th St., Phoenix, 2318 N. W. Vaughn St., Portland, 803 W. Jackson, Medford, 306 Dexter Ave., Seattle 9, 121 S. Monroe St., Spokane 8, 110 East 6th St., Tucson.

KAMPHAUSEN CO., DAN, Continental Oil Bldg Denver, Colo.—Paul Ousley, 10710 S. W. Elysium Ave., Portland; George Barrett, 4741 7th Ave. Sacramento; Frank Stogdill, 743 Lake Elmo Road Billings, Mont.

KANTHAL CORP., Stamford, Conn. — Montgomery Brothers, Inc., 1122 Howard St., San Francisco; 1632 N.W. Johnson St., Portland, and 911 Western Ave., Seattle; Jackson Edwards Co., 4101 Lankeshim Blvd., Los Angeles, 3840 N. Jakake Dr., Scottsdale, Ariz.

KAYLINE CO., 2480 E. 22nd St., Cleveland, Ohio—Jack Finkelstein, 546 W. Encanto Blvd., Phoenix Ray Alexander, 940 Stout St., Blackfoot, Ida.; W B. Roth, P. O. Box 9167, Denver 20.

KEARNEY CORP., JAMES R., 4236 Clayton Ave., St Louis, Mo.—Maydwell & Hartzell, Inc., in following cities: 870 Tennessee St., San Francisco 7, 427 West 5th St., Los Angeles 13, 5823 Henley Dr., San Diego, 306 Dexter Ave., Seattle 9, 2318 N. W. Vaughn St., Portland 10, 121 S. Monroe St., Spokane, 803 W. Jackson, Medford, 120 South 29th St., Phoenix, and 110 East 6th St., Tucson; Conely Engineering Co., 165 South First West St., Salt Lake City; Robert Smith, 13394 Braun Rd., Golden, Colo.

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UPTEGRAFF—Transformers

KELLEMS CO., 15 Williams St., Stonington, Conn.—R. E. Cunningham & Son, 530 West 6th St., Los Angeles; George E. Honn Co., 560 Third St., San Francisco; Sales Engineers Co., 211-212 Wazee Market, Denver.

KELLOGG SWITCHBOARD & SUPPLY CO., 6650 S. Cicero Ave., Chicago, Ill.—Branch Offices: 23 Broderick Road, Burlingham, Calif.; 102 Carlson Bldg., Bellevue, Wash.; 8703 Te Tijero Blvd., Los Angeles.

KELMAN POWER CIRCUIT BREAKER DIVISION, I-T-E CIRCUIT BREAKER COMPANY, 1667 North Main St., Los Angeles 12, Calif.—C. E. Ingalls & Sons, 681 Market St., San Francisco 5, Calif.; Eicher & Company, 5 West Harrison St., Seattle 99, Wash.; W. H. Eddy Electric Products, Inc., 5153 N. 29th Ave., Phoenix, Ariz.; Cline Equipment Company, 233 S.W. Temple St., Salt Lake City 1, Utah; I-T-E Circuit Breaker Company, 1921 East 7th St., Los Angeles 21, Calif.; R. L. Brewer Company, Inc., 100 S. El Paso St., El Paso, Texas; R. E. McDonough Co., 829 Maryland Ave., Butte, Mont (See ad, p. 38)

KELNOR MANUFACTURING CORP., 1355 Market St. San Francisco 3, Calif.—Clay Estes Co., 1355 Market St., San Francisco.

KENDALL CO.—(See Polyken Sales Div.)

KENNECOTT WIRE & CABLE CO., Bourne Ave., Phillipsdale, R. I.—Chase Brass & Copper Co., 6500 E. Washington Blvd., Los Angeles, 230 Shaw Road South San Francisco 7, and 1957 First Ave., South Seattle 4.

KEN-RAD LAMP DIV., WESTINGHOUSE ELEC CORP., Owensboro, Ky.—Ray H. Elliott, 336 So Anderson, Los Angeles 33; D. A. Steinkamp, 16 Wazee Market, Denver 6; James J. Backer, 221 West Galer St., Seattle 99; T. R. Van Wagoner, 1415 So. Main St., Salt Lake City. Stocking Distributors: Phillips & Edwards Elec. Corp., San Francisco, Santa Rosa, Oakland, Stockton, Redwood City; Incandescent Supply Co., San Jose, Los Angeles, Redding, Fresno, Sacramento, Pasadena.

KENT LIGHTING CORP., 500 Johnson Ave., Brooklyn 37, N. Y.—Pete Bach, 1233 N. W. 12th Ave. Portland.

KERITE COMPANY, 30 Church St., New York City—Branch Offices: The Kerite Co., Robert A. Young, Pac. Coast Mgr., 3901 San Fernando Road, Glendale 4, Calif., and 681 Market St., San Francisco; Carlson Sales, Inc., 1201 Dexter Ave., Seattle 9, 935 N.W. 12th Ave., Portland, and 604 Utah Ave., Butte, Mont.

KERRIGAN IRON WORKS CO., 1033 Herman St., Nashville, Tenn.—Arthur & Allen, 420 Market St., San Francisco.

KESTER SOLDER CO., 4201 Wrightwood Ave., Chicago 39, Ill.—Laurence Shriver Co., 714 Olympic Blvd., Los Angeles; L. M. Skelton, 401 S. Burnside Ave., Los Angeles 36, and No. 1 Skyline Drive Daly City, Calif.; Distributor: Sloss & Brittain, 100 Potrero, San Francisco.

KETT TOOL COMPANY, 5055 Madison Road, Cincinnati 27, Ohio — James E. Allen, Box 86, Pacific Palisades, Calif.

KEYSTONE MFG. CO., 23328 Sherwood, Warren, Mich.—Hollis R. Johnson, 5528 Timberwolf, El Paso; Fred D. Benz Co., 520 4th St., San Francisco; H. M. Denny Co., 3410 16th Ave. West, Seattle 99; A. J. Nelson Co., 710 E. Louisiana St., Denver; John Allen Ware & Assoc., P. O. Box 4216, Phoenix; Calhoun & Poxon, 5429 Alhambra Ave., Los Angeles.

KEYSTONE ELECTRIC MFG. CO., 2224 E. Tioga, Philadelphia, Pa.—Guy deLeuze, 1923 Bryant St., San Francisco.

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KILLARK ELECTRIC MFG. CO., 3940 Easton Ave., St. Louis 13, Mo.—Northwestern Agencies, Inc., 4130 First Ave. So., Seattle 4, and 2941 N.W. Quimby, Portland 10; F. M. Nicholas Co., 72 Townsend St., San Francisco 7; Kenneth Anderson Co., 123 So. Myers St., Los Angeles 33, and 422 So. 7th, Phoenix; Kenneth C. Schumann, 1073 Galapago, Denver 4; Matt Cabot & Associates, 1263 Kukila St., Honolulu 18, Hawaii.

KILBURY MFG. INC., 14529 Hawthorne Blvd., Lawndale, Calif.

KIM MFG. CO., 1467 No. Lidcombe Ave., El Monte, Calif.—Humber & Walker Co., 314 12th St., San Francisco; J. R. Penning, 2323 2nd Ave., Seattle; Gregg Cloos, 977 Jackson, Denver; Wm. A. Benndorf Co., 221 E. Camelback Rd., Phoenix; Cooper Lighting Sales, P. O. Box 3007, Billings, Mont.; David M. Merrill, 194 No. First St., Farmington, Utah.

KIMBLE GLASS CO., Sub. of Owens-Illinois, Toledo Ohio—Maydwell and Hartzell, Inc., 427 West 5th St., Los Angeles 13, 870 Tennessee St., San Francisco 7, 5823 Henley Dr., San Diego, 803 W. Jackson, Medford, 120 South 29th St., Phoenix, 110 East 6th St., Tucson, 2318 N. W. Vaughn, Portland 10, 306 Dexter Ave., Seattle; Joslyn Pacific Company, 5100 District Blvd., Los Angeles, 180 Potrero Ave., San Francisco, 808 N. W. 16th Ave., Portland, 2424 First Ave., So., Seattle 4, and 1427 East 3045 South St., Salt Lake City 6; Line Material Co., 6490 E. Fleet St., Los Angeles 22, 360 Shaw Road, South San Francisco, 1333 N. W. 12th Ave., Portland, 1220 W. Nickerson St., Seattle 99, East 3303 Ferry St., Spokane, and 980 South 6th West St., Salt Lake City.

KINDORF, Div., Steel City Electric, 1207 Columbus Ave., Pittsburgh 33, Pa.—Hodges & Glomb, 921 Bryant St., San Francisco; Murphy-Hain, 331 So. Mission Road, Los Angeles; Northwestern Agencies, 4130 First Ave. South, Seattle; Fred E. Staible & Sons, 2046 Arapahoe St., Denver.

KING ELECTRICAL MFG. CO., 523 N.W. Everett St., Portland 9, Ore.—Keeler White-Portland, 523 N. W. Everett, Portland, and Keeler, White, Inc., 1041 6th Ave. So., Seattle.

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KIRKLAND CO., THE H. R., 8-10 King St., Morristown, N. J.—Fred D. Benz Co., 520 4th St., San Francisco; P. E. Golsan, Jr., 301 Pasadena Ave., So. San Francisco, Calif.

KIRKWOOD COMMUTATOR CO., 4855 W. 130th St., Cleveland, Ohio—Insulation & Wires, Inc., in following cities: 6415 E. Fleet St., Los Angeles; 450 Alabama St., San Francisco, and 1112 N. W. 19th Ave., Portland.

KIRLIN CO., 3435 E. Jefferson, Detroit 7, Mich.—Bruce Emmett Co., 830 S. E. Alder St., Portland 14; Robt. E. Jones, 444 Dexter Horton Bldg., Seattle; Benndorf, 221 E. Camelback Rd., Phoenix; Jim Shirreffs Co., 3601 S. Broadway Place, Los Angeles; Stanley Sales Corp., 1122 Folsom St., San Francisco; Controls Eng. Co., 2795 E. 3220 So., Salt Lake City; Sales Engineering Service Co., 1216 Santa Fe Dr., Denver 4.

KISCO COMPANY, INC., St. Louis 4, Mo.—Smallcomb Electric Co., 1120 S. Main St., Los Angeles 15.

KLEIN & SONS, MATHIAS, 7200 McCormick Rd., Chicago, Ill.—C. L. Woolsey, 1320 Opachee Way, Glendale, Calif.; D. E. Swanson, 1570 Ebener, Redwood City, Calif.

KNIGHT MFG. CO., Gresham, Ore.—Ross M. Vieths Co. Inc., 3632 41st Ave. West, Seattle 99; Allied Masonry Anchors, Inc., 131 Rosecrans Ave., Compton, Calif.; W. B. Imholt Co., 275 Brannan St., San Francisco 7.

KNOPP, INC., 1307 66th St., Oakland 8, Calif.—C. C. Blacksmith, P. O. Box 54, Covina, Calif.; Arthur E. Booth, 265 S. Alexandria Ave., Los Angeles 4; Wm. M. Jewell, c/o Washington Athletic Club, 6th and University, Seattle; Hamilton Associates, 1236 Elati St., Denver 4; The MaBi Co., P. O. Box 835, Oakland 4. (See ad, p. 42)

KNOX PORCELAIN CORP., Knoxville, Tenn.—Bruce-Emmett Co., 1016 First Ave. So., Seattle 4, and 830 S.E. Alder St., Portland; Matzinger-Johnson, 1329 Willow St., Los Angeles 13.

KOCH, FRED O., West 1312 Kiernan Ave., Spokane, Wash.

KOHLER CO., Kohler, Wis.—Branch Office: 570 Sutter St., San Francisco; 900 Tower Bldg., Seattle; 3458 Wilshire Blvd., Los Angeles.

KOILED KORDS, INC., 1565 Dixwell Ave., New Haven 14, Conn.—Summer-Whiting Co., 407 Commercial Center, Beverly Hills, Calif.; S. M. Sherman, Box 1362, Los Altos, Calif.

KONDU CORPORATION, 1040 West 12th, Erie, Pa—Bruce-Emmett Co., 830 S. E. Alder, Portland and 1016 First Ave. W., Seattle; F. D. Moran Co., Box 325, Phoenix; M. W. Blake, 1802 Blaine Ave. Salt Lake City.

KOPPERS COMPANY, INC., Metal Products Div., 200 Scott St., Baltimore, Md.—Branch Offices: 55 New Montgomery St., San Francisco, and 3450 Wilshire Blvd., Los Angeles.

KORFUND CO., INC., Westburg, New York—W. H. Steele & Co., 1612 W. Beverly Blvd., Los Angeles 26; Rolph Mills & Co., 370 Fourth St., San Francisco; E. N. Murray Co., 153 Denver Club Bldg., Denver 2; E. H. Price, Ltd., 83 Robson St., Vancouver, B. C.

KORNS COMPANY, C. C., 350 Southmont Blvd., Johnstown, Pa.—Incandescent Supply Co., 647 Mission St., San Francisco; Graybar Electric Co. 1750 Alameda St., San Francisco, and 210 Anderson, Los Angeles; Gough Industries, 827 E. 1st St., Los Angeles; General Electric Supply Co., 700 Turner St., Los Angeles; Westinghouse Electric Supply, 905 E. Second St., Los Angeles.

KORTICK MFG. CO., 3600 Third St., San Francisco 24, Calif.—Maydwell & Hartzell, Inc., 870 Tennessee St., San Francisco, and 427 W. 5th St., Los Angeles 13; 2318 N. W. Vaughn, Portland 10; 306 Dexter Ave., Seattle 9; 121 S. Monroe St., Spokane; 120 South 29th St., Phoenix; 5823 Henley Dr., San Diego; 803 W. Jackson, Medford; 110 East 6th St., Tucson; Nat'l Elec. Supply, 611 Keeaumoku, Honolulu, Hawaii. (See ad, p. 43)

KRALOY PLASTIC PIPE CO., 402 West Central, Santa Ana, Calif.—The Curry Co., 190 Lombard St., San Francisco; Carlson Sales, Inc., 1201 Dexter Ave., Seattle 9; 935 N. W. 12th, Portland; Ralph Black, 1025 Hermosa Dr., S. E., Albuquerque; McLoughlin Sales Co., 811 East 14th Place, Los Angeles.

KRYLON INC., Norristown, Pa.—Leslie D. Morrison, 704 The Alameda, Berkeley 7, Calif.; M. H. Miller, 1707 S. 15th St., Salt Lake City 5; Swan O. Kjos, 8010 30th Ave., N. E., Seattle 5; H. M. Shoemaker, 1576 Gower St., Hollywood, Calif.; Wm. L. Knoyer Co., 138 West 12th Ave., Denver 4.

KUHLMAN ELECTRIC CO., P. O. Box 288, Birmingham, Mich.—Factory: Kuhlman Elec. Co., 1056 Pellett Ave., Salinas, Calif.; Maydwell & Hartzell, Inc., 870 Tennessee St., San Francisco 7; 427 West Fifth St., Los Angeles 13; 120 South 29th St., Phoenix; 2310 N. W. Vaughn, Portland 10; 306 Dexter Ave., Seattle 9; 121 South Monroe, Spokane 8; 803 W. Jackson St., Medford; 5823 Henley Dr., San Diego; 110 East 6th St., Tucson; Sales Engineers Co., 211-212 Wazee Market, Denver; Hollis R. Johnson, 5528 Timberwolf Dr., El Paso, Tex. (See ad, back cover.)

KULKA ELECTRIC MFG. CO., INC., 633 So. Fulton Ave., Mt. Vernon, N. Y.—Conrad R. Strassner Company, 1557 N. Western Ave., Los Angeles 27, Calif.; Pete Bach Electric, 1233 N. W. 12th Ave., Portland 9, Ore.; Ray J. Noel Co. Inc., 4315 So. Western Ave., Los Angeles; James Mundstock, 417 Market St., San Francisco 11; D. A. Steinkamp & Co., 16 Wazee Market, Denver; Shefler-Kahn, P. O. Box 1587, Phoenix.

KURMAN ELECTRIC, 187 Newell St., Brooklyn 22, N. Y.—Bernard L. Cahn Co., 420 Market St., San Francisco.

KURTZ & ROOT CO. INC., 232 E. North Island, Appleton, Wis.—Pacific Division, 2031 N. Lincoln, Burbank, Calif.; Avtronics, Inc., 603 West Manchester Blvd., Inglewood, Calif.

KWIKHEAT MFG. CO., 3732 San Fernando Road, Glendale, Calif.—Claude Michael Agency, 703 West Ivy, Glendale 4, Calif.

LAKE MFG. CO., 2323 Chestnut St., Oakland, Calif.—Sold by distributors in all principal cities. Factory in Oakland, Calif.

LAKE SHORE ELECTRIC CORP., 205 Willis St., Bedford, Ohio—Artwel Electric, Inc., 1485 Bayshore Blvd., San Francisco; Control Switches, Inc., 6241 W. 89th St., Los Angeles 45; Henry G. Lehl, 14280 S.W. Upland Dr., Oswego, Ore.

LAMSON CORPORATION, Billmyre Blower Div., 900 Lamson St., Syracuse, N. Y.—Branch offices: 555 Bryant St., San Francisco 7; 306 E. Washington Blvd., Los Angeles; Colin Kirk & Associates, 1197 Stout St., Denver 4; Sanford Mechanical Equipment Co., 430 40th St., Oakland; E. N. Murray, 320 Denver Club Bldg., Denver; Steel & Eng. Products, P. O. Box 3626, El Paso; Richard J. Donovan, P. O. Box 606, Chula Vista, Calif.; Henry S. Parks, 1431 E. 21st St., Salt Lake City.

LAMSON MOBILIFT CORPORATION, 2440 S.E. Raymond St., Portland, Ore.—Lift Truck Service, 736 N.E. Broadway, Portland and 5913 Freemont St., Oakland; Kistler Machine Shop, 2536 S. Delaware, Denver 23; Industrial Supply Co., 131 Social Hall Ave., Salt Lake City 10; Wm. T. Billard, Inc., 734 E. 3rd St., Los Angeles 13; Standard Equip. Co., 2725 E. Sprague Ave., Spokane 31; Roadrunner Equip. Co., 143 Coors Blvd., S.W., Albuquerque; Northwest Equip. Co., P. O. Box 73, Yakima, Wash.; Lyman Repair Service, 210 "V" St., Eureka, Calif.; Von Hamm-Young Co. Ltd., P. O. 2630, Honolulu 3, Hawaii.

LAND-AIR, INC., 7444 W. Wilson Ave., Chicago, Ill.—(Transformers) George E. Honn Co., 560 Third St., San Francisco 11; Roy E. Coulson, 8050 N. 3rd Ave., Phoenix; C. W. Silver Co., 550 West 7th St., Salt Lake City; Standard Electric Sales, 204 W. Lucile St., Seattle 4; Peterson Co., 4949 Colorado Blvd., Denver; W. T. Stephens Co., 1510 Martha Lane, Santa Ana, Calif.

LANDIS & GYR, INC., 45 West 45th St., New York 36, N. Y.—Ault Associates, 120 Santa Margarita Ave., Menlo Park, Calif.; Paul F. Wiley Co., 1632 Silverlake Blvd., Los Angeles.

LANLY COMPANY, 2800 Euclid Ave., Cleveland, Ohio—Egloff & Graper, Inc., 1798 Industrial Way, Los Angeles 23.

LAPP INSULATOR CO., INC., LeRoy, N. Y.—Earl S. Condon Co., 3450 Wilshire Blvd., Los Angeles; Donald E. Ingalls, 1485 Bayshore Blvd., San Francisco 24; Charles F. James, 905 Lloyd Bldg., Seattle; Riter Eng. Co., 1369 Major St., Salt Lake City; R. E. McDonough Co., 829 Maryland Ave., Butte, Mont.; H. C. Guire & Co., 715 South York St., Denver, Colo.; Smith Sales Co., Albuquerque.

LARCO, INC. (Distributor of Lintern Corp. Products), Painesville, Ohio—Gordon N. Proffitt, World Trade Center, San Francisco; James P. Kinney Co., 3659 Whittier Blvd., Los Angeles 23.

LARSON LADDER CO., 651 Martin Ave., Santa Clara, Calif.—W. & B. Stone Co., 1355 Market St., San Francisco; W. P. Fuller & Co., 404 West 4th So., Salt Lake City. Sold through major wholesale distributors in all principal cities.

LaSALLE PRODUCTS, INC., 143 Seneca St., Buffalo, N. Y.—Wm. Benndorf, 221 E. Camelback Road, Phoenix; Heinz and Wells, 1500 Westlake Ave. N., Seattle; William H. Fuller, 1038 Palm Ave., Whittier, Calif.

LAU BLOWER CO., 2027 Home Ave., Dayton, Ohio—G. R. Mergenthaler, 2305 No. Cameron, Covina, Calif.

LAUREL LAMP MFG. C., INC., 111 Rome, Newark, N. J.—Arthur S. Rosengard, Los Angeles Furniture Mart, Room 1009, Los Angeles.

LAWRENCE PUMPS, INC., 363 Market, Lawrence, Mass.—Belilove Co., 420 Market St., San Francisco.

LAWSON STRAP CO., 16410 Double Grove, La Puente, Calif.—Electrical: Guy deLeuze Co., 1923 Bryant St., San Francisco; Michel Bros., 1016 E. 16th St., Los Angeles; J. W. Reynolds, 1481 S. Main, Salt Lake City. Pumping: Al American, 821 Traction, Los Angeles.

LEACH COMPANY, 412 So. Main St., Oshkosh, Wis.—Graybar Electric Co., General Electric Supply and Westinghouse Electric Supply in all principal cities.

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shore Blvd., San Francisco; Howe & Howe, 4328 No. 42nd, Phoenix.

LEACH CORP., Relay Div., 5915 Avalon Blvd., Los Angeles 3, Calif.—Branch Offices: 814 San Antonio Road, Palo Alto, Calif., 11743 Twelfth St., N.E., Seattle 55; Brown Technical & Associates Sales, 130 S. Yarrow St., Lakewood, Colo.

LEADER LAMP MFG. CO., 476 Broome St., New York City 13, N. Y.—Fred J. Stone Co., 24 Manzanita Ave., San Francisco; Robert Bach Associates, 191 Oneida St., Denver; Herbert Leib, 2759 Dunleer Place, Los Angeles.

LEADLIGHT FIXTURE CO., 800 100th Avenue, Oakland, Calif.—Oscar Hogenson 95 Connecticut St., Seattle; John B. Thompson, 4242 No. 15th St., Phoenix; George C. Hallstein, Jr., 4821 N. Glen Ardin Ave., San Dimas; Bruce-Emmett Co., 830 S.E. Alder, Portland; Chas. Bacon, 1331 T. St., Sacramento; Walter Coffman, 4839 Kenmore Terrace, San Diego; Walter Suen, 3411 Kaau St., Honolulu, Hawaii.

LECKENBY STRUCTURAL STEEL CO., 2745 11th Ave., S.W., Seattle, Wash.

LECTROHM, INC., 5560 N. West Highway, Chicago, Ill.—George S. Tivy, 1148 S. Grand Ave., Los Angeles; Logan Sales, 150 Eighth St., San Francisco.

LECTROMELT FURNACE DIV., McGraw-Edison Co., 32nd St. and A. V. R. R., Pittsburgh, Pa.—Wm. G. Rawson, 3441 Iowa St., Seattle 6; J. B. Ambler, 401 W. Bayaub St., Denver 3; Riter Engineering Co., 1369 Major St., Salt Lake City.

LEE ELECTRIC & MFG. CO., 2806 Clearwater St., Los Angeles 39, Calif.—H. R. Kaewert, 750 Natoma St., San Francisco; Robert Young & Co., 3901 San Fernando Rd., Glendale; Bach Associates, 191 Oneida St., Denver.

LEE YARNS, ROBERT, Two Rivers, Wisc.—L. L. Burror Co., 1126 8th Ave., Oakland; Electrical Specialty Co., in following cities: 158 11th St., San Francisco, 2820 E. 12th, Los Angeles, 2026 Arapahoe, Denver, 212 N.W. 14th Ave., Portland, 2406 First Ave. So., Seattle, 2588 Simpson Ave., Salt Lake City and P. O. Box 232, Phoenix; H. G. Rising Co., 151 N. Vermont Ave., Los Angeles; C. E. Riggs, 317 N.W. Broadway, Portland; Tri-State Supply Corp. in following cities: 544 S. San Pedro, Los Angeles, 325 Westlake Ave., No., Seattle and 554 Bryant St., San Francisco; Motorman Supply Co., 1241 So. Hill St., Los Angeles.

LEECE-NEVILLE CO., 5109 Hamilton Ave., Cleveland, Ohio—E. W. McConnell, 11462 Cumpston St., North Hollywood, Calif.; C. L. Davenport, 1823 26th Ave., San Francisco.

LEEDS & NORTHRUP COMPANY, 4901 Stenton Ave., Philadelphia 44, Pa.—Branch Offices: 1095 Market St., San Francisco 3, 1311 Republican St., Seattle 9; 1545 Glenarm Place, Denver 2, 455 E. 4th South, Salt Lake City, 1190 Monterey Pass Rd., Monterey Park, Calif.

LEFFEL, JAMES E., CO., P. O. Box TR, Springfield, Ohio—Artwel Electric Co. Inc., 1485 Bayshore Blvd., San Francisco 24.

LELAND OHIO ELECTRIC CO., 1501 Webster St., Dayton 1, Ohio—Branch Office: 7046 Hollywood Blvd., Los Angeles 28; Artwel Electric, Inc., 1485 Bayshore Blvd., San Francisco; Hubert Kaub & Co., 1025 Santa Fe Dr., Denver 4; Electrical Sales Co., P. O. Box 49 Sugarhouse Sta., Salt Lake City; Richard R. Hynes, 511 Hawkins Way, El Paso, Tex.

LENK MFG. CO., THE, P. O. Box 324, Franklin, Ky.—P & G Associates, 1132 N. W. Glisan, Portland; Eddie Colman & Associates, 1503 S. Maple Ave., Los Angeles 15; Koether-Cox Co., 110 W. 13th Ave., Denver 4; Perlmuth Electronics Associates, 2419 S. Grand Ave., Los Angeles.

LENKURT ELECTRIC CO., INC., 1105 County Road, San Carlos, Calif.—Automatic Electric Sales Corp., 1838 El Camino Real, Burlingame, Calif.; E. G. Hall, Western Dist. Mgr., 1105 County Road, San Carlos, Calif.

LENNOX INDUSTRIES, INC., Marshalltown, Iowa—Branch Offices: 2041 S. Saybrook Ave., Los Angeles; 2200 S. Main St., Salt Lake City.

LENZ ELECTRIC MFG. CO., 1751 N. Western Ave., Chicago, Ill.—Eichorn & Melchoir Inc., 932 Terminal Way, San Carlos, Calif.; S. L. Spraggins Co., 16042 Ventura Blvd., Encino, Calif.

LEONARD ELECTRIC MFG. CO., 3907 Perkins Ave., Cleveland, Ohio; W. E. Kirk Co., 415 Wall St., Los Angeles; J. H. Ormond, 600 16th St., Oakland.

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LEVITON MFG. CO., 236 Greenpoint Ave., Brooklyn, N. Y.—Western Division: 385 E. 2nd St., Los Angeles 5; J. Driscoll, 2166 Market St., San Francisco; Roy J. O'Donnell, 2256 S. Delaware St., Denver 23; W. W. Wheat & Sons, 3818 E. Marginal Way, Seattle 4.

LEW ELECTRIC FITTINGS CO., 627 W. Lake St., Chicago, Ill.—F. J. Airey Co., 2324 E. Hunter St., Los Angeles 21; Guenther & Tate, 79 S.E. Taylor Ave., Portland, and 825 Taylor Ave., Seattle 9; Bergman-Marshall Co. Inc., 1370 Van Dyke Ave., San Francisco 24.

LEWIS-SHEPARD PRODUCTS, INC., 125 Walnut St., Watertown 72, Mass.—M. E. Canfield Co., 419 E. Third St., Los Angeles 13; Howard Burt & Son, 501 Standish St., Redwood City; L. J. Clarke & Co., 2625-27 N. First Ave., Tucson; Harry H. Neumann, 1863 Wazee St., Denver; Modern Equipment Co., 52 W. 2nd So. St., Salt Lake City 1; Liftruck & Equip. Co., 558 1st Ave. South, Seattle 4 and 6840 S. W. Macadam Ave., Portland 1.

LEXINGTON ELECTRIC PRODUCTS CO., INC., 12 Chapel St., Newark 5, N. J.—Tudor & Assoc., 1004 S. E. Belmont St., Portland 14; Muth-Richards Co., 1804 Bush Place, Seattle 44; Campbell & George Co., 1601 Cortland, San Francisco; Hundley Co., 3282 Fletcher Dr., Los Angeles 65.

LIBERTY BELL MFG. CO., Swainsboro, Georgia—Roth Sales Co., 630 Jasmine St., Denver; Northwest Sales Co., 1603 N. W. Johnson, Portland; A. Allen Smith, 1513 Mateo St., Los Angeles; Thos. D. Noble Co., 210 12th St., San Francisco.

LICON SWITCH & CONTROL DIV., Illinois Tool Works, 6606 W. Dakin St., Chicago, Ill.—Representatives: James Findlay Co., P. O. Box 717, Bellevue, Wash.; Electronic Components Sales, 645 S. Broadway, Denver 9; McKnight Co., 1436 El Camino Real, Menlo Park, Calif. Distributors: Graybar Electric Co., 210 Anderson St., Los Angeles 54; Universal Radio Supply, 1729 S. Los Angeles St., Los Angeles 15; Electronic Supply Corp., 2085 Foothill Blvd., Pasadena, Calif.; Peninsula TV & Radio Supply, San Jose; H. G. Rising, Inc., 151 N. Vermont Ave., Los Angeles 4; Farwest Trading Co., 209 First Ave. South, Seattle 4; Vitus Elec. Supply, 140 E. Fifth Ave., Eugene, Ore.

LIDSEEN OF NORTH CAROLINA, INC., 1102 1st St., Hayesville, N. C.—Graybar Electric Co., Inc., all principal cities; Seattle Tool & Supply, 924 E. Pike St., Seattle 24.

LIFE INSTRUMENT CO., Franklin, Mass.—Northwest Sales & Eng., 420 Market St., San Francisco and Terminal Sales Bldg., Seattle 1.

LIGHTALARMS, INC., 95 Atlantic Ave., Brooklyn, N. Y.—W. E. Kirk Co., 415 Wall St., Los Angeles; J. E. Edstrom, 1224 S. W. Morrison, Portland 5; Robert Thallon, P. O. Box 937-Sta. A., San Mateo, Calif.

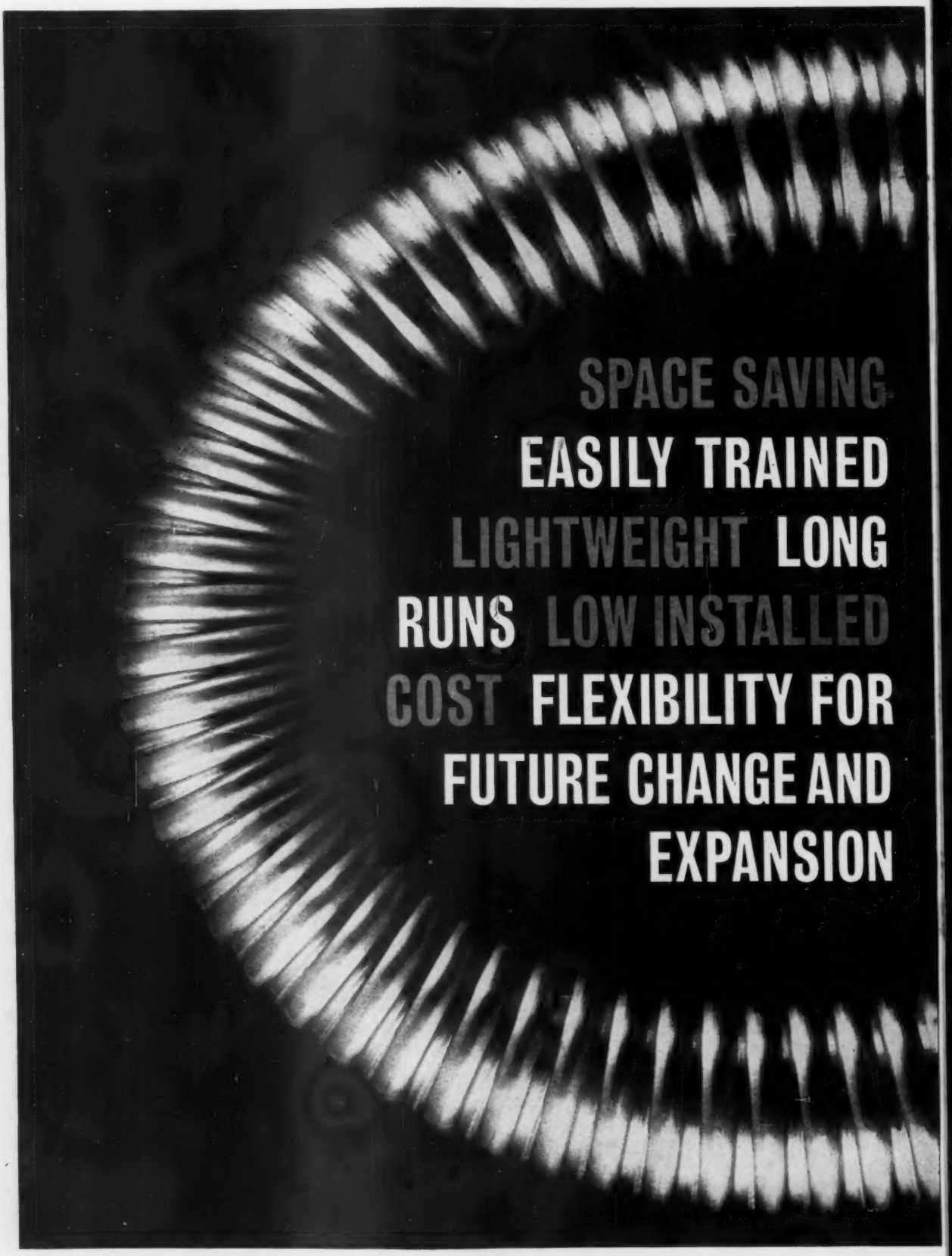
LIGHT CONTROL INC., 850 E. 111th Place, Los Angeles, Calif.—Al Slater & Assoc., 9011 15th Ave., N.E., Seattle 15; Gene Seals, 520 E. St., Room 814, San Diego; Ralph Mooney, 411 South First St., Phoenix.

LIGHTHOUSE, THE, Milwaukee, Wis.—J. H. Stumph, 1000 Fourth Ave., South, Seattle; Don Congdon Co., 1530 Dover, Lakewood, Colo.; R. E. Tweedy, 356 E. Alvarado, Phoenix.

LIGHTING DYNAMICS, INC., 300 N. Baldwin Park Blvd., City of Industry, Calif.—Donald S. Gleason & Assoc., 4710 University Way, Seattle; Clyde E. Dodd, 628 N. Russett, Portland; Ray E. Wendling, P. O. Box 3721, Phoenix; Dave Parker, 1485 Bayshore Blvd., San Francisco.

LIGHTING PRODUCTS, INC., Highland Park, Ill.—James Mundstock, 417 Market St., San Francisco; Wm. Proby & Associates, 2915 13th S. W., Seattle; E. A. Ryan, 1308 N.W. Everett, Portland 9; Wm. A. McGuire, 164 So. Central Ave., Los Angeles; J. W. Reynolds Co., 375 Andrew Ave., Salt Lake City 15; Paul Griffin, Box 3771, Phoenix; Fred Staible & Son, 2046 Arapahoe St., Denver.

LIGHTOLIER, INC., 346 Claremont Ave., Jersey City, N. J.—Branch Office: 2515 So. Broadway, Los Angeles, Calif.; 5470 Mohawk Rd., Littleton, Colo.; 1502 E. Broadway, Glendale, Calif.; 358 W. 189th St., Seattle, 1684 Lexington Ave., San Mateo, Calif.; 3125 28th St., San Diego.


SPACE SAVING
EASILY TRAINED
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RUNS LOW INSTALLED
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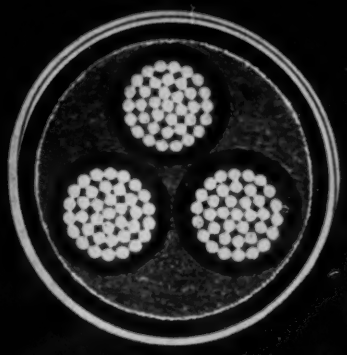
For full protection under all conditions install General Cable Interlocked Armor...the cable for power, control, communication and lighting systems. This compact, versatile cable is available in a wide range of constructions, insulations, armors and voltage ratings. Colored polyvinyl chloride jacket over the armor can be furnished where required. "How to Obtain the Greatest Advantage Per $ Spent" a comprehensive folder detailing General Cable's complete line of Interlocked Armored Cables is available upon request. **General Cable Corporation**, 730 Third Avenue, New York 17, New York. Offices and Distributing Centers Coast-to-Coast.



(See listing, Sales Offices, p. 32)

LIMA ELECTRIC MOTOR CO., Findlay Road, Lima, Ohio—Starbuck Machine Tool Co., 4111 Airport Way, Seattle; Clyde P. Elliott, 661 Delaware St., Denver 4; Darnall Machinery Co., 315 East Washington Blvd., Los Angeles 15; Moore Machinery Co., 7th and Carleton Sts., Berkeley 10, Calif.

LINCOLN ELECTRIC CO., 22801 St. Clair Ave., Cleveland, Ohio—Branch Offices: 1224 Walnut St., Denver; 1303 Stanford Ave., Emeryville, Calif.; 2661 So. Yates Ave., Los Angeles; 1034 N.E. Russet St., Portland 11; 543 W. Nevada Ave., Seattle 4; Industrial Supply Co., P. O. Box 600, Salt Lake City, 420 S. 3rd Ave., Phoenix, and 650 N. 6th Ave., Tucson; Great Northern Tool & Supply, Billings, Mont.; Big Three Welding Supply, 4318 2nd St. N.W., Albuquerque, and Farmington, Utah; Northern Commercial Co., 4233 W. Marginal Way, Seattle (for Alaska); Welding & Ind. Products, 1370 Makaloa St., Honolulu.

LINCOLN LIGHTING PRODUCTS, INC., 4121 N. Rockwell St., Chicago, Ill.—Pete Bach Electric, 1233 N. W. 12th Ave. Portland.

LINDBERG ENGINEERING CO., 2450 W. Hubbard St., Chicago, Ill.—Branch Offices: 11937 S. Regentview Ave., Downey, Calif., and 1485 Bayshore Blvd., San Francisco; Blair Engineering Co., 4100 Grape St., Denver 16; Western Factors Co., 2733 4th Ave. S., Seattle 4; McGowan Co., Inc., 1205 S. Boyle Ave., Los Angeles 23; San Francisco phone Enterprise 1-4700.

LINDSEY MFG. CO., 222 Vista St., Pasadena, Calif. —Pacific Utilities Supply Co., 141 King St., San Francisco; W. D. Howze Co., 5603 N. Figueroa, Los Angeles; K. M. Ryals Co., 9 First St., San Francisco; R & M Sales, Denver, Colo.

LINE MATERIAL INDUSTRIES, Div., McGraw-Edison Co., 700 West Michigan, Milwaukee 1, Wis.—Branch Offices: Paul K. Churchill, West Coast Regional Manager, Los Angeles area, 7105 So. Paramount Blvd., Pico-Rivera, Calif.; 360 Shaw Road, South San Francisco; W. F. Smith, Mountain States Regional Manager, East 3303 Ferry St., Spokane; 1333 N.W. 12th Ave., Portland; 1220 West Nickerson St., Seattle; 614½ State, Boise, Idaho; 740 So. Nevada St., Butte, Mont.; 980 S. 6th West St., Salt Lake City 4; 1330 12th St. N.W., Albuquerque; 1123 Tenaighth Way, Sacramento, Calif.; 4502 Lois Drive, Anchorage, Alaska; California Factory: 7533 Avenue 304, Visalia, Calif. Agents: J. E. Redmond Supply Co., 625 West Madison St., Phoenix, Arizona; Hawaiian Lighting & Supply, 1362 Kapiolani Blvd., Honolulu, Hawaii.

LINEMASTER SWITCH CORP., Woodstock, Conn.—Maddox Sales Co., 914 East Third St., Los Angeles; James M. Krotozyner, 544 Market St., San Francisco; Wayne C. Wells Co., 6055 N.E. Glisan, Portland 13; Hyde Electronics, 888 S. Lipan St., Denver 23, and 5206 Constitution Ave., N.E., Albuquerque.

LITECONTROL CORPORATION, 36 Pleasant St., Watertown, Mass.—Al C. Slater & Associates, 9011 15th Ave., N. E., Seattle.

LITECRAFT MFG. PACIFIC CORP., 545 Rodier Drive, Glendale, Calif.—Sold thru legitimate electrical wholesalers.

LITE-MOR ELECTRIC MFG. CORP., Lebanon School Rd., West Mufflin Borough, Pittsburgh 36, Pa.—John Roth, 1315 Jasmine St., Denver; Allied Electrical Agencies, 1431 Minor Ave., Seattle.

LITTELFUSE, INC., 1865 Miner St., Des Plaines, Ill. —Ash M. Wood, Box 1158, Arcadia, Calif.; Dave M. Lee, 2517 Second Ave., Seattle; McLoud & Raymond Co., 5403 E. Evans, Denver 22; Harry A. Moore Sales Co., 305 E. Indian School Road, Phoenix.

LLOYD PRODUCTS CO., 114-116 Baker St., Providence 5, R. I.—The Sanderlin Co., 56 S. E. Belmont St., Portland, and 129 First Ave. W., Seattle.

LOCUST PIN CO., INC., Front Royal, Virginia—Maydwell & Hertzell, Inc., in following cities: 870 Tennessee St., San Francisco 7; 427 W. 5th St., Los Angeles 13; 2318 N. W. Vaughn St., Portland 10; 306 Dexter Ave., Seattle 9; 120 South 29th, Phoenix; 121 S. Monroe, Spokane; 803 W. Jackson St., Medford; 5823 Henley Dr., San Diego; 110 East 6th St., Tucson.

LORD MFG. CO., 1635 W. 12th St., Erie, Pa.—7046 Hollywood Blvd., Los Angeles 28; 916 Kearny St., San Francisco.

LOTRAN, INC., P. O. Box 2521, Baton Rouge, La.—Earl S. Condon Co., 3450 Wilshire Blvd. Los Angeles; C. E. Ingalls & Sons, Monadnock Bldg., San Francisco 5.

LUCIFER FURNACES, INC., Neshaminy, Pa.—Matheson-Doherty Co., 225 S. Shaw Road, San Francisco; Mission Tool & Supply Co., 4349-C Slauson Ave., Maywood, Calif.; Equipment Sales & Mfg. Co., 1018 4th St., N. W. Albuquerque, N. M.; Paramount Mfg. Co., 1208 N. W. Glisan St., Portland.

LUMA ELECTRIC EQUIPMENT CO., 1607 Coining Drive, Toledo, Ohio—Garrett Supply, 3844 Santa Fe Ave., Los Angeles; Thomas L. Stevens Co., 15222 Grevillia, Los Angeles; Claude Michael, 703 West Ivy St., Glendale 4, Calif.

LUMIDOR MFG. CO., INC., 4801 E. 50th St., Los Angeles, Calif.—Through jobbers.

LUMENITE ELECTRONIC CO., 407 S. Dearborn St., Chicago 5, Ill.—Jensen Instrument Co., 1919 W. Beverly Blvd., Los Angeles, and 429 Bryant St., San Francisco; Duncan Equipment Co., 506 Broadway, Seattle; Technical Sales Co., 1731 First Ave., South, Seattle.

LUMINOUS CEILINGS, INC., 3701 N. Ravenswood Ave., Chicago 13, Ill.—Branch: 5100 Santa Monica Blvd., Los Angeles 29; American Light & Ceiling Co., 41 14th St., San Francisco 3; J. Pellicano, 1226 S.W. Hume St., Portland; R. E. Jones, 444 Dexter Horton Bldg., Seattle; Bernie Bricker, 1455 S. Orangethorpe, Fullerton, Calif.; David Merrill, 192 First Ave., East, Farmington, Utah.

LUMINOUS EQUIPMENT CO., 1325 W. Webster Ave., Chicago 14, Ill.—Harry N. Lindsey, 1516 W. 81st St., Los Angeles 47; Chas. A. Blakely, 754 Natoma St., San Francisco.

LUSTRA CORP. OF AMERICA, 3233 47th Ave., Long Island City, N. Y.—Branch: 1440 - 4th St. Berkeley 10.

LUXO LAMP CORP., 1683 Jerrold Ave., San Francisco (M. E. Begen, Vice Pres.) (See ad, p. 95)

LYNCH COMMUNICATIONS SYSTEMS INC., 695 Bryant St., San Francisco 7, Calif.—Graybar Electric Co. all principal cities.

LYON METAL PRODUCTS, INC., Aurora, Ill.—Branch Offices: 900 So. Turnbull Canyon Rd., City of Industry, Calif.; P. O. Box 3096, Rincon Annex, San Francisco 19; 1755 Utah Ave., Seattle 4; P. O. Box 3797, Portland 8; 1314 Wood St., Dallas 2; P. O. Box 1896, Oakland; 5545 North Kay Dr., Phoenix.

McCABE-POWERS BODY CO., 625 Cedar St., Berkeley 10, Calif.—5525 S. E. 28th Ave., Portland 2, Ore.; 12121 Los Nietos Rd., Santa Fe Springs, Calif.; Main Office: 5900 N. Broadway, St. Louis 15, Mo. Western Distributors are American Machine Company, 1026 W. Broadway, Spokane 1, Wash.; Paul K. Haggard Co., 4431 No. 7th St., Tacoma 6, Wash.; Williamson Body and Equipment Co., 9th and Wall Sts., Ogden, Utah; Williamson Body and Equipment Co., Poleline and Maple Sts., Pocatello, Idaho; Williamsen's, Inc., 1925 W. Indiana Ave., Salt Lake City, Utah; Auto Safety House, Inc., 4343 E. Washington, Phoenix, Ariz.; Powers Pacific Ltd., Honolulu.

McCALL'S DESERT-AIR LAMPS—(See Desert Air)

McCORMICK & BAXTER CREOSOTING CO., P. O. Box 3344 (6900 N. Edgewater), Portland, Ore.—Branch Offices: 485 California St., San Francisco; 114 W. Broadway, Glendale, Calif. (See ad, p. 75)

McFARLAND CO., L. D., Box 390, Sandpoint, Idaho —Branch Office: Eugene, Ore.

McGILL MFG. CO., INC., Valparaiso, Ind.—George A. Gray Co., 2720 17th St., San Francisco 10; J. G. Pomeroy Co., 1004 E. 4th St., Los Angeles 13; Frank A. Strohecker, 2207 1st Ave. So., Seattle 4.

McKINLEY CO., BEN P., 522 So. Clinton St., Chicago, Ill.—C. W. Boswell, 531 Jessie St., San Francisco; J. R. Christensen Agency, 249 East 5th South, Salt Lake City 2; The Sanderlin Co., 129-31 First Ave. W., Seattle; The McLoughlin Co., 811 East 14th Place, Los Angeles 54.

McPHILBEN MFG. CO., INC., 1329 Willoughby Ave., Brooklyn, New York—Humber & Walker, 314 12th St., San Francisco; Carl A. Peterson, 5757 Huntington Drive No., Los Angeles 32; Wm. Benndorf Co., 221 E. Camelback Rd., Phoenix; F. E. Gleason, 6511 24th N.E., Seattle 15; Gregg N. Cloos, 977 Jackson St., Denver; Wm. Benndorf Co., 4204 Palo Duro, N.E., Albuquerque, N. M.; Arty W. Clark, P. O. Box 2402, Salt Lake City.

MB ELECTRONICS, P. O. Box 1825, New Haven, Conn.—Pacific Scientific Co., 760 Harrison St., San Francisco, 1218 S.E. 7th Ave., Portland, 421 Michigan St., Seattle 8; 1950 5th Ave., San Diego, P. O. Box 22019, Los Angeles.

M.S.W. MANUFACTURING CO., INC., 1527 Niagara St., Buffalo 13, N. Y.—Ray J. Noel, 4315 S. Western Ave., Los Angeles 62.

MACALLEN CO., Bay Road, Newmarket, N. H.—C. D. La Moree, 2221 Fourth St., Berkeley 10; 2433 Birkdale, Los Angeles 31; 317 N. W. Broadway, Portland; 166 Jackson, Seattle.

MACBETH DAYLIGHTING CORPORATION, P. O. Box 950, Newburgh, N. Y.—E. S. Browning Co., 2321 Yates St., Los Angeles 22 and 1515 Third St., San Francisco.

MACCORKLE, INC., D. S., 1 Newark St., Hoboken, N. J.—Ken Ryals Co., 9 First St., San Francisco; William Horning, 902 Friedel Ave., Vancouver, Wash.; Sales Engineers, Inc., 211 Wazee Market, Denver; A. B. Smedley & Assoc., 848 Marcheta St., Altadena, Calif.; Williamson Sales, P. O. Box 3275 Sta. D, Albuquerque.

MACK ELECTRIC DEVICES, INC., 33 Glenside Ave., Wyncote, Pa.—James L. Kearns Co., P. O. Box 5108, Portland 16.

MADISON ELECTRIC PRODUCTS, INC., Madison, Ohio—Nourse Equipment Co., 2216 5th St., Berkeley, Calif.

MAGNAVOX, Bueter Road, Fort Wayne, Ind.—Branch Offices: 2255-59 Carmelina Avenue, Los Angeles 54, and 6480 Corvette, Los Angeles 22.

MAGNETIC SHIELD DIV., PERFECTION MICA CO., 1322 N. Elston Ave., Chicago, Ill.—Perlmuth Elec. Assoc., 5057 W. Washington Blvd., Los Angeles, 941 Charleston Road, Palo Alto, Calif.; 1020 Scott St., San Diego 6.

MAGNI FLOOD, ELECTRIC PRODUCTS, 38 North Second Ave., Mt. Vernon, N. Y.—Sold in Western States by Shalda Mfg. Co., 156 West Providencia Ave., Burbank, Calif.

MAGNUSON ENGINEERS, INC., 509 Emory St., San Jose, Calif.—Artwel Electric Inc., 1485 Bayshore Blvd., San Francisco 24.

MAGTROL, INC., 240 Seneca St., Buffalo, N. Y.—Joe Davidson & Associates, P. O. Box 108, Southgate, Calif.

MAJOR EQUIPMENT CO., 4603 W. Fullerton Ave., Chicago, Ill.—Lighting Design Specialists, Inc., 21 Roosevelt Circle, Palo Alto, Calif.; Stagecraft Industries, Inc., 2852 N. W. 31st Ave., Portland 10, Ore.; The Controls Eng. Co., 1150 East 5th So., Salt Lake City 10; Gregg N. Cloos Co., 977 Jackson, Denver; Jim Shirreffs Co., 3601 So. Broadway Pl., Los Angeles.

MAKOMB STEEL PROD., Div. Globe American Corp., N. Dudley, Macomb, Ill.—Chas. H. Lilly Co., Spokane; Monroe Dairy Machinery, Inc., Spokane; Duthin Seed Co., Lewiston; Cascade Supply Co., Portland; Polson Impl. Co., Seattle.

MALLEABLE IRON FITTINGS CO., Pole Hardware Div., Branford, Conn.—Wm. J. Cottrell Co., 4000 S. W. Macadam Ave., Portland 1; Industrial Engineering & Equipment Corp., 2975 Wilshire Blvd., Los Angeles 5; Wrathall & Krusl, 1044 Monadnock Bldg., San Francisco 5; Slaybaugh-Thompson Co., 100 W. 13th Ave., Denver 4.

MALLORY & CO., INC., P. R., 3029 E. Washington, Indianapolis, Ind.—Branch Office: 9121 East Garvey, Rosemead, Calif.; Hodges Glomb, 921 Bryant St., San Francisco; Don H. Burcham, 510 N. W. 19th Ave., Portland; Electric Motor Co., Denver.

MALLORY BATTERY CO., 1300 Athens Ave., Cleveland, Ohio—Don H. Burcham Co., 510 N.W. 19th Ave., Portland 9.

MANHEIM MFG. & BELTING CO., 315 Stiegel St., Manheim, Pa.—A. W. Nash, 2112 S. Atlantic Blvd., Los Angeles; T. T. Watson, 1226 Bailey, Seattle 8.

MANNING PAPER CO., INC., JOHN A., Troy, N. Y. —Insulation & Wires, Inc., in following cities: 6415 East Fleet St., Los Angeles; 310 Shaw Road, South San Francisco, and 1112 N.W. 19th Ave., Portland.

MANNING CO., INC., R. A., Sheboygan, Wis.—F. C. Henkel Sales, 317 Builders Exchange Bldg., Portland; C. A. Peterson, 5757 Huntington Dr., N., Los Angeles 32; McGillan Sales Co., 1100 Hermosa Dr., S.E., Albuquerque; Harry F. Ream Sales Agency, 1216 Santa Fe Dr., Denver 4; J. W. Reynolds Co., 1481 S. Main St., Salt Lake City 15; Robert E. Gordon, 4016 Oak Hill Road, Oakland 5, Calif.

MARATHON ELECTRIC MFG. CORP., West Riverside, Wausau, Wis.—Branch: 2639 S. LaCienega Blvd., Los Angeles.

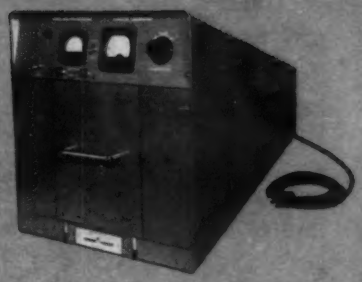
MARATHON SPECIAL PRODUCTS CORP., Erie, Pa.—Stocking Distributors: A. E. Bottenfield, 734 Menlo Ave., Menlo Park, Calif.; Phillips & Edwards Elec. Corp., San Francisco, Santa Rosa, Oakland, Stockton, Redwood City; Incandescent Supply Co., San Jose, Redding, Fresno, Sacramento.

MARCUS TRANSFORMER CO., 900 Leesville Ave., Rahway, New Jersey—Pacific Industries, 8255 Beverly Blvd., Los Angeles; E. B. Cook, 1063 Howard St., San Francisco; Norman R. Schultz Co., 4227 Airport Way, Seattle; McGillan Sales Co., P. O. Box 4013, Albuquerque; Makinney (Hawaii), P.O. Box 1577, Honolulu, Hawaii.

MARK & CO., CLAYTON, 1900 Dempster St., Evanston, Ill.—Electric Agencies, 506 Second Ave., Seattle; Hodges & Glomb, Inc., 921 Bryant St., San Francisco; Rutkin Electrical Sales Co., 744 Kohler St., Los Angeles; Kenneth B. Schumann Co., 1073 Galapago St., Denver; R. L. Brewer Co. Inc., 102 South El Paso St., El Paso.

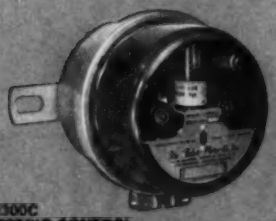
SERIES 6100 CALIBRATOR

For simple, rapid checking and adjustment of operating points of all F-P and nearly all other types of photoelectric lighting controls. Assures uniform turn-on settings, better control of burning hour schedules. Useful for incoming inspection of controls and trouble-shooting. Operates on 105-130 volts, 50/60 cycles AC. Consult factory for information on 220-volt operation.



INDUCTIVE PICK-UP ASSEMBLY

Model S467-1 Pick-Up Assembly produces an output voltage proportional to conductor current, in a fixed phase relationship with it, without line break-in or dead ending. Low in cost, easily and safely installed. For capacitor switching; load limit tripping, checking or warning; power direction sensing; line current measurement. Output: 1 volt for every 60 amps of conductor current, linear from 0-5000 amps. May be connected to switching circuit, relay, magnetic amplifier, panel instrument, etc.



NEW F-P VARELAY® power factor correction controls and Series 4800 Power Line CURRENT RELAYS employ S467-1 as pick-up unit.

SERIES 63300C PHOTOELECTRIC CONTROL

Switching capacity 3000 or 6000 watts; turn-on 0.5 to 500 foot-candles.

Weatherproof head enclosure, plugs into meter socket . . . SPST, SPDT, DPST switching arrangements . . . fail safe operation . . . delayed circuit response to prevent false operation due to lightning . . . fuse and potentiometer checked or adjusted without removing enclosure . . . for 105-130 or 210-250-volt, 50/60 cycle operation; insulation level 4.5 KV.

for dependability

install trouble-free

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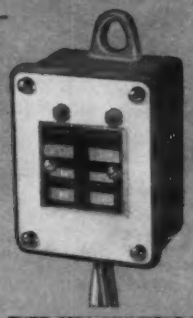
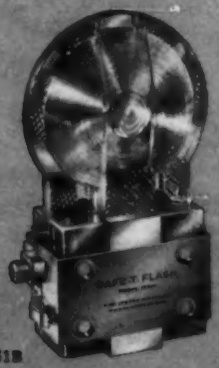


TYPE 250A MULTIPLE RELAY

For increasing load capacity of a single photoelectric lighting control. Thousands in use in pilot wire control, cascaded streetlighting installations and industrial lighting systems. Weatherproof, compact, low-cost. Has expulsion-type lightning arrester. Normally-open or normally-closed contacts; 30-ampere rating, maximum inrush 300 amperes; 3000-watt incandescent lamp load; 105-130 volt, 50/60 cycle operation.



MODELS 1751A, 1751B SAFE-T-FLASH®

Reliable, extremely efficient transistorized highway flasher for mounting on barricades and saw horses. With low battery drain, it produces bright flashes through amber-colored high-impact plastic lens. Model 1751A flashes 135 times a minute, Model 1751B 67 times a minute. Unit is weatherproof and shock-proof, has corrosion resistant steel base housing.

MODEL 6600A

SERIES 6600A PHOTOELECTRIC CONTROLS . . . tubeless, field-tested low-cost.

Rugged, reliable control fully proven in thousands of field installations; guaranteed for two years. Uses only 5 components, including hermetically sealed cadmium sulfide photocell driving a specially-designed Sigma relay. Lightweight, compact, easy to handle, install and check out. Twistlock plug and removable sponge gasket conform to EEI-NEMA specifications. Design provides built-in lightning protection, delayed response to prevent accidental turn-off by lightning, fail-safe operation, adjustable turn-on. Temperature range −55°C. to +70° C.; tested to 100% relative humidity. Bakelite chassis provides a hipot rating of at least 5000 volts.

Basic Model 6600A fits bases up to 3" in diameter; Model 6607A fits bases up to 3⅝" in diameter. Both may be used with numerous Westinghouse, GE, Wheeler, Joslyn and other popular luminaires. Wide variety of standard adapters and hardware available to meet all mounting requirements, including replacement of Fisher-Pierce tube-type controls and elimination of glassware. For 240-volt operation, Model 6700 is available, fits mounting bases up to 3⅝" in diameter.

Fisher-Pierce manufactures a complete line of photocontrols for indoor and outdoor use, as well as photorelays and light sources, timers, scanners and related devices for utility, industrial and commercial applications. Write for descriptive literature or contact your Fisher-Pierce representative. The Fisher-Pierce Co., 43A Pearl St., So. Braintree 85, Mass.

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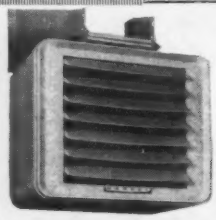
Fan-Forced!
Radiant!
Natural Convection!

RESIDENTIAL!
INDUSTRIAL!
COMMERCIAL!
INSTITUTIONAL!



Introducing the NEW LINE of

Industrial & Commercial UNIT HEATERS

28 STANDARD MODELS!
- 2000 to 10,000 Watts
- 208, 240 & 480 Volts

Single & 3 Phase Types, Suspended & Portable Models.

Featuring Totally Enclosed Stainless Steel Finned Elements!

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BASEBOARD HEETAIRES

Cost less to buy . . . less to install! Low surface temperature! Simple mounting. Splice boxes prewired to elements!

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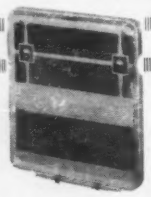

New! HEAVY DUTY FAN-FORCED WALL HEATERS

- AUTOMATIC
- 2000-4800 W., 208 or 240 v.

Recessed or Surface Mounted

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contact your distributor or write us c/o Dept. EW

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LA SALLE PRODUCTS, Inc.
145 SENECA ST., BUFFALO 3, N. Y.

In Canada:
Markel Electric Products, Ltd., Fort Erie, Ont.

(See listing, Sales Offices, p. 48)

MARKEL ELECTRIC PRODUCTS, INC., 145 Seneca St., Buffalo, N. Y.—O. W. Coombs Sales, 1026 S. Olive St., Los Angeles 15; Wm. Benndorf, 221 E. Camelback Rd., Phoenix; Jack Wells, 3405 Kremer Ave., Everett, Wash.; W. T. Durkin, P. O. Box 3893, Portland, Ore.; George Langevin, 430 27th Ave., San Mateo, Calif. (See ad, p. 48)

MARKS MFG. CO., 700 N. Carpenter St., Chicago 22, Ill.—Philo E. Bagg, 1355 Market St., San Francisco.

MARKSTONE MFG. CO., 1531 N. Kingsbury, Chicago 22, Ill.—Western Offices: Lewis C. Brady, Rt. 1, Box 453-B2, Arvada, Colo.

MARLEY COMPANY, THE, 222 W. Gregory Blvd., Kansas City 14, Mo.—Branch Offices: 924 E. Main, Alhambra, Calif., and 420 Market St., San Francisco; Arthur Forsyth Co., 2800 15th Ave., West, Seattle; Pace-Turpin Co., 1855 Michigan Ave., Salt Lake City; J. E. Redmond Supply Co., 625 West Madison St., Phoenix; The Hank Thurstin Co., 475 Acoma St., Denver.

MARLUX CORPORATION, Marlux Park, Billerica, Mass.—Jim Shirreffs Co., 3601 S. Broadway Pl., Los Angeles; Gregg Cloos, 977 Jackson St., Denver.

MARMON-HERRINGTON COMPANY, 1511 W. Washington St., Indianapolis, Ind.—Branch Office: 250 Grand Ave., Oakland, Calif. Sold through leading distributors.

MARQUETTE MFG. CO., INC., 307 E. Hennepin Ave., Minneapolis, Minn.—Branches: 2501 Yates, Los Angeles; 909 King St., Oakland, and 3941 First Ave. So., Seattle.

MARTIN STAMPING & STOVE CO., Huntsville, Ala.—O. B. Wilt Co., 934 Terminal Way, San Carlos, Calif.; Rieder & Miller Assoc., P. O. Box 4847, Portland 13, and P. O. Box 7162, Seattle 33.

MARTINDALE ELECTRIC CO., 1375 Hird Ave., Cleveland, Ohio—Tri-State Supply Co., 554 Bryant St., San Francisco 7, 325 Westlake Ave., Seattle 9, and 544 S. San Pedro St., Los Angeles 13.

MARVEL LAMP COMPANY, 95 River St., Hoboken, N. J.—California Electric Supply Co., 12th and Folsom St., San Francisco; Vic Paul Co., 510 N. W. Hoyt St., Portland; Bach Associates, 191 Oneida, Denver.

MARVIN ELECTRIC MFG. CO., 648 Santa Fe Ave., Los Angeles 21, Calif.—L. S. Reed & Co., 1018 Lawrence St., Denver 4; Earl Stearns, Rt. 6, Box 945, Tacoma, Wash.; Dave Cohen, 2166 Market St., San Francisco; Hugh Bargion, P. O. Box 3679, Honolulu 11; Norman Ross, P. O. Box 187, Scottsdale, Ariz.; Richard L. Winter, 2347 DiFoss St., Lemon Grove, Calif.

MASON CO., L. E., 98 Business St., Boston 36, Mass.—Howard & Goepp, 1301 6th St., San Francisco 7; John M. Fincke Co., 1848 N. Main St., Los Angeles 31; Pacific Electric Sales Co. Inc., 140 Southeast 28th St., Portland 15.

MASSEY, INC., A. H., 111 Third St., Derby, Conn.—Eckert Lloyd Co., 1225 6th St., San Francisco, 1947 Naomi Ave., Los Angeles; Bach Associates, 191 Oneida, Denver.

MAXSON CORP., THE W. L., Unimax Switch Div. Wallingford, Conn.—M. A. Stolaroff Co. Inc., 4622 W. Slauson Ave., Los Angeles; Win W. Tompkins & Co., 3944 El Camino Real, Palo Alto, Calif.; Lloyd Edwards, 1105 Northern Life Tower, Seattle 1; Hyde Electronics, 888 S. Lipan St., Denver 23; Andrew L. Polich, Inc., 734 N.W. Glisan St., Portland 9.

MAYHEW STEEL PRODUCTS, 30 Sears, Shelburne Falls, Mass.—A. G. "Andy" Dalla Pozza, 6112 Ranier Ave., Seattle.

MEAKER CO., Nutley 10, N. J.—Branch: 2180 Colorado Ave., Santa Monica, Calif.

MEARS ELECTRIC CIRCUIT BREAKERS, INC., 13725 S.W. Millikan Way, Beaverton, Ore.—Same sales outlets as Mears Elec. Controls. H. G. Lehl, 14280 S. Uplands Dr., Oswego, Ore.; Artwel Electric, Inc., 1485 Bayshore Blvd., San Francisco 24; Wally E. Starr, 10450 Pomering Road, Downey, Calif.

MEARS ELECTRIC CONTROLS, INC., 13725 S. W. Millikan Way, Beaverton, Ore.—Artwel Electric, Inc., 1485 Bayshore Blvd., San Francisco 24; H. G. Lehl, 14280 South Uplands Dr., Oswego, Ore.; W. E. Starr, 926 So. Atlantic Blvd., Los Angeles 22.

MECHANICAL PRODUCTS, INC., 1824 River St., Jackson, Mich.—1226 W. Olive Ave., Burbank, Calif

MEMCO ENGINEERING & MFG. CO., INC., Commack, Long Island, New York—D. T. Elliott, 1229 Burlingame Ave., Burlingame, Calif.; Best Linemen's Supply Corp., 541 First Ave. South, Seattle.

MEND-IT-SLEEVE MFG. CO., 3125 Gloria Terrace, Lafayette, Calif.—Sold direct by manufacturers and through distributors.

MERCOID CORPORATION, 4201 Belmont Ave., Chicago 41, Ill.—Jensen Instrument Co., 1919 W Beverly Blvd., Los Angeles, and 429 Bryant St., San Francisco; J. M. Warner Co., 600 W. 48th, Denver; Stevens Sales Co., 1482 Major St., Salt Lake City; E. H. Langdon Co., 72 Vine St., Seattle; George S. Thomson Co., 611 N. Campbell St., El Paso; H. W. McKenzie & Co., 100 N. E. Holladay, Portland.

MERCURY PRODUCTS CO., Boston Post Road, Guilford, Conn.—Pacific Electric Sales Co., 140 S.E 28th Ave., Portland 14.

METALECTRICS, INC., 627 Greenwich St., New York City 14, N. Y.—Bach Associates, 191 Oneida St., Denver.

METALTITE PRODUCTS, INC., 6810 McCook Ave Hammond, Ind.—Tesman Agencies Co., 836 Traction Ave., Los Angeles; Wayne C. Wells Co., 6055 N. E. Glisan St., Portland; Sales Engineering Service Co., 1216 Santa Fe Dr., Denver; Garrison Co., 850 So. Van Ness Ave., San Francisco.

METALS & CONTROLS DIV., Texas Instruments, Inc. Forest St., Attleboro, Mass.—West Coast Engineering Facilities, Burbank, Calif. KLIXON Parts Distributors: L. L. Burror Co., 1126 8th Ave., Oakland 6; Arrowhead Elec. Corp., 5979 S. Figuero, Los Angeles 3; Center Elec. Eng., 1501 Center St., Tacoma and Seattle; C. E. Riggs, Inc., 317 N. W. Broadway, Portland 9; Western Electro Motive, 5544 West Pico, Los Angeles.

METER DEVICES CO., 1001 Prospect Ave., S. W., Canton 6, Ohio—Western Representatives: Fred W. Carlson, 1201 Dexter Ave., Seattle 9; J. G. Carrin, 510 W. Sixth St., Los Angeles 14; Hamilton & Associates, 1236 Elati, Denver; Knapp, Inc., 4224 Holden St., Oakland, Calif.; Roy E. Coulson, 8050 N. 3rd, Phoenix.

METRON INSTRUMENT CO., 432 Lincoln St., Denver, Colo.—Component Sales Calif., Inc., 4626 Van Nuys Blvd., Sherman Oaks, Calif.

MEYERS SAFETY SWITCH CO., INC., 423 Tehama St., San Francisco 3, Calif. (See ad, p. 102)

MICA INSULATOR DIV. of Minnesota Mining & Mfg. Co., 797 Broadway, Schenectady 1, N. Y.—Minnesota Mining & Mfg. Co., 3663 1st Ave. S. Seattle; 6023 S. Garfield Ave., Los Angeles; 320 Shaw Road, So. San Francisco; 1639 Blake St., Denver; and 446 N. LaBree Ave., Hollywood; Insulation & Wires, Inc., in following cities: 6415 E. Fleet, Los Angeles, 1112 N. W. 19th Ave., Portland, and 450 Alabama St., San Francisco.

MICAMOLD ELECTRONICS MFG. CORP., 65 Gouverneur St., Newark, N. J.—Logan & Stone Co., 1485 Bayshore Blvd., San Francisco; General Inst. Corp., 11982 Wilshire Blvd., Los Angeles 25; Everett Gramer & Co., 444 W. Camelback Road, Phoenix.

MICHIGAN OVEN CO., 415 Brainard St., Detroit, Mich.—Blair Engineering Co., 4100 Grape St., Denver; American Engineering & Mfg. Corp., 1183a San Pablo Ave., El Cerrito, Calif.

MICRO BALANCING, INC., Herricks Rd. and Washington Pl., Garden City, N. Y.—Joslyn Pacific in following cities: 180 Potrero Ave., San Francisco 3, Los Angeles, Portland and Seattle; Hamilton Associates, 1236 Elati St., Denver. (See ad, p. 51)

MICRO SWITCH, a Division of Minneapolis-Honeywell Reg. Co., Freeport, Ill.—Branch Offices: 6620 Telegraph Road, Los Angeles 22, 2153 Moore St., San Diego, 2 Dorman Ave., San Francisco 24, 401 Pontius Ave. N., Seattle 9, 1600 W. 13th Ave. Denver 4, 4125 N. Seventh Ave., Phoenix. Stocking Distributors: Phillips & Edwards Elec. Corp., 265 Vermont St., San Francisco, Stockton, Redwood City; Western Electro Mechanical Co., 300 Broadway, Oakland. Stocking distributors in all principal cities.

MIDGET HEATER & SPEC. CO., 2801 Pacific Ave., Tacoma, Wash.—Incandescent Supply, 647 Mission St., San Francisco; Valley Electric, 1831 18th St., Sacramento, Calif; North Coast Elec. Supply, 625 N. W. Everett, Portland; Eoff Electric, 509 N. W. 10th, Portland; Love Electric, 1914 Market, Tacoma; Palmer Electric, 307 Westlake N., Seattle; Columbia Elec. Co., E. 3420 Ferry Ave., Spokane.

MID-WEST CHANDELIER CO., 15th and Gentry, No. Kansas City, Mo.—Merwin Altfeld, 3038 Overland Ave., Los Angeles 34; Ernie Massman, Columbia Falls, Mont.; Fred J. Stone Co., 24 Manzanita Ave., San Francisco.

MIDWEST ELECTRIC PRODUCTS, INC., 1515 N. Front St., Mankato, Minn.—Walter W. Corman, 7432 W. 80th St., Los Angeles 45, Calif.; Wayne C. Wells, 6055 N.E. Glisan, Portland 13; Howard & Goepp Co., 1301 6th St., San Francisco 7; Electric Locator & Supply, 3921 Delamar N.E., Albuquerque, N. M.; R & M Sales Co., 2214 S. Clayton St., Denver 10.

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(See representatives' listing, p. 38)

MILBANK MFG. CO., 1111 Virginia St., Kansas City, Mo.—Industrial Eng. & Equipment Corp., 2975 Wilshire Blvd., Los Angeles; Pacific Electric Sales Co., 140 S. E. 28th Ave., Portland.

MILLER CO., THE, 99 Center St., Meriden, Conn.—E. D. Heintze 810 Hoyt St., Denver 15; Stanley Sales Co., 1122 Folsom St., San Francisco; English & Associates, 4229 122nd Ave. S.E., Bellevue, Wash.

MILLER ELECTRIC CO., 120 Main St., Pawtucket, R. I.—Ed B. Schack & Co., 2216 First Ave., Seattle; John Carder Jr. Co., 1624 First St. N. W., Albuquerque.

MILLER ELECTRIC MFG. CO., 718 South Bounds St., Appleton, Wis.—E. W. Connor, Reg. Mgr., 4662 Richmond St., Fremont, Calif.; D. K. Rowen, Dist. Mgr., 2414 East Romneys Dr., Anaheim, Calif.

MILLER EQUIPMENT CO., INC., 13th and New Streets, Franklin, Pa.—J. E. Haseltine & Co., 115 S. W. 2nd Ave., Portland; E. D. Bullard Co., 2680 Bridgeway, Sausalito, Calif., and 6719 S. Figueroa St., Los Angeles 3; Safety & Supply Co. 115 Blanchard St., Seattle.

MILLER-HARRIS INSTRUMENT CO., 1134 S. First St., Milwaukee, Wis.; James M. Krotozyner, 544 Market St., San Francisco; Ed Warburg Co. Inc., 1207 E. 8th St., Los Angeles 21; Wayne C. Wells, 6055 N.E. Glisan St., Portland.

MILLER-ROBINSON CO., 7007 Avalon, Los Angeles 3, Calif.

MILLER TOOL & MFG. CO., INC., K., 8 Cass St., Springfield 4, Mass.—J. H. Kay, 713 East 3rd, Los Angeles; Garrison & Co., Builders' Exchange, 850 S. Van Ness, San Francisco 10.

MILLER TRANSFORMER MFG. CO., 4550 N. E. Alberta St., Portland, Ore.—Formerly Electran Co., Portland.

MILWAUKEE CRANE DIV., Industrial Enterprises, Inc., 3275 E. Van Norman Ave., Cudahy, Wis.—Robert M. Taylor Co., 268 Market St., San Francisco.

MILWAUKEE ELECTRIC TOOL CORP., 5316 W. State St., Milwaukee 8, Wis.—Branch: 2569 W. Olympic Blvd., Los Angeles, and 405 Cedar St., Seattle 1; R. R. Premo, 1605 S.W. Palestine St., Portland 19; Robert Currie, 1711 Shaffer Rd., Sebastopol, Calif.; Ted Green, 9391 N. Knox Ct., Westminster, Colo.

MINARIK ELECTRIC CO., 224 E. 3rd St., Los Angeles 13.

MINERALLAC ELECTRIC CO., 25 N. Peoria St., Chicago, Ill.—F. J. Airey Co., 1513 S. Mateo, Los Angeles; H. C. Guire Co., 715 S. York St., Denver 9; Wm. O. Proby & Associates, 1308 N.W. Everett, Portland 9, and 2915 13th Ave., S.W., Seattle; George E. Honn Co., Inc., 560 Third St., San Francisco.

MINE SAFETY APPLIANCES CO. (Brooks Div.), 201 N. Braddock Ave., Pittsburgh 8, Pa.—Branch Offices: 1255 Howard St., San Francisco; 115 W. 25th St., Los Angeles; 71 Columbia St., Seattle 4, and 257 Rio Grande St., Salt Lake City 1; Best Linemen's Supply, 541 First Ave. So., Seattle.

MINNEAPOLIS ELECTRIC & CONSTRUCTION CO., 1005-25th St., West Palm Beach, Fla.—General Electric Supply Co., Graybar Electric Co., and Western Electric Co. in all West Coast cities.

MINNEAPOLIS-HONEYWELL REGULATOR CO., Industrial Div., Wayne and Windrim Aves., Philadelphia, Pa.—Branch Offices: 2 Dorman Ave., San Francisco 24; 6620 Telegraph Road, Los Angeles 22; 1600 W. 13th Ave., Denver 4, Colo.; 2280 S. Main St., Salt Lake City; 2502 Garfield Ave. S. E., Albuquerque; 2600 S. E. Belmont, Portland; 401 Pontius Ave. North, Seattle; N. 1007 Columbus St., Spokane; 4125 North Seventh Ave., Phoenix; 826 Whitney Rd., Anchorage, Alaska; 618 Coral St., Honolulu.

MINNEAPOLIS-HONEYWELL, Heating Controls, 2753 4th Ave. So., Minneapolis, Minn.—Offices in all principal cities.

MINNESOTA MINING & MFG. CO., 900 Bush Ave., St. Paul 6, Minn.—Branch Offices: M. D. Benson, Sales Mgr., 6023 S. Garfield, Los Angeles 22; F. A. Blankenbaker, Sales Manager, 320 Shaw Road, South San Francisco, and 3663 1st Ave. S., Seattle.

MINUTE MOUNT, Philadelphia, Pa.—Norman Ross, 4227 N. Monte Vista, Scottsdale, Ariz.

MIROFLECTOR CO., INC., 40 Bayview Ave., Inwood, L. I., N. Y.—Fred D. Benz, 520 4th, San Francisco; Dick English, 4229 122nd Ave. S.E., Bellevue, Wash.; Gruen Lighting, 8336 W. 3rd St., Los Angeles 48.

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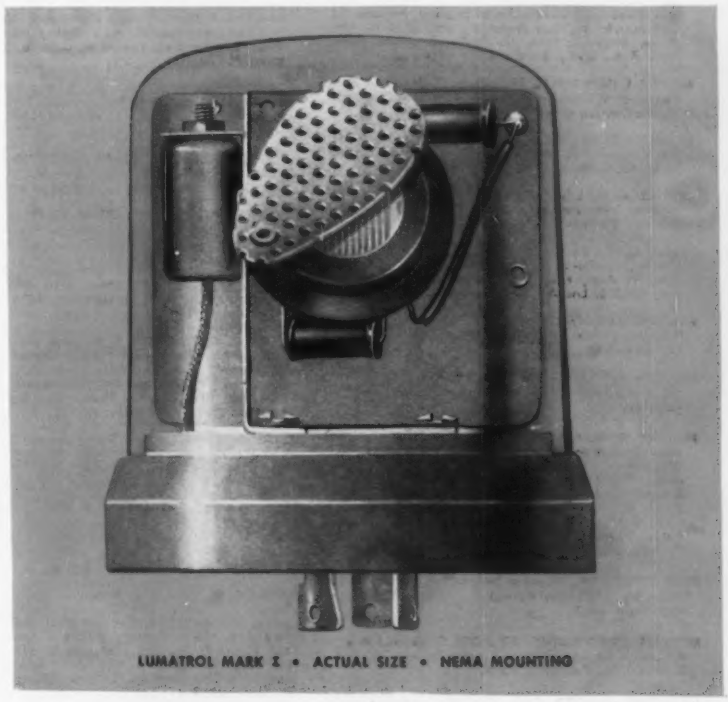

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(See representatives' listing, page 48)

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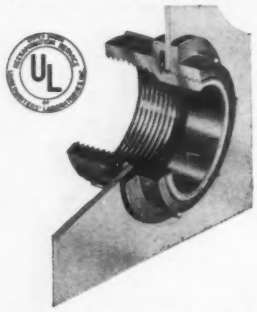

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MITCHELL INDUSTRIES, INC., Box 17, Mineral Wells, Texas—R. E. Osborne, 1757 Garfield, So. Pasadena, Calif.; Gordon Moss, P. O. Box 428, Greeley, Colo.

MOBILIFT CORP., 835 Southeast Main St., Portland 14, Ore.—G. A. Belford, 2730 San Pablo Ave., Oakland, Calif.

MOBILE AERIAL TOWERS, 1730 N. Harrison, Ft. Wayne, Ind.—Jacobs-Kerr and Co., 1950 31st St., Denver; Western Truck Equip., 3101 N. 29th Ave., Phoenix; Utility Body Co., 1530 Wood St., Oakland, Calif.; Douglas Hood Co., 1947 N.W. Overton St., Portland; Truck Welding and Equip. Co., 739 9th Ave., No., Seattle 9; Jumbo Equipment Co., 1012 S. Los Angeles St., Los Angeles 15.

MODERNHEAT CABLE CORP., 1601 Jared Drive, Kingsport, Tenn.—Vic Paul Co., 510 N.W. Hoyt St., Portland.

MODERN SUPPLIERS, 1090 Leggett Ave., N. Y. City 59, N. Y.—Ball & Block, 3039 E. 12th St., Los Angeles.

MODINE MFG. CO., 1300 DeKoven Ave., Racine, Wis.—Branch and factory, Box 830, Whittier, Calif. Distributors: Lowrie & Co., Inc., 110 S. Euclid Ave., Pasadena, Los Angeles; California Hydronics Corp., 910 Howard St., San Francisco 3; A. A. Maycoc Co., 330 W. 7th South, Salt Lake City; R. H. Brown & Co., 1152 Dexter Horton Bldg., Seattle and 610 Henry Bldg., Portland; Pearsall Co., 120 W. 5th Ave., Denver 4.

MOE LIGHT DIV., Thomas Industries, Inc., 410 S. Third St., Louisville, Ky.—(See Thomas Industries, Moe Light Div.)

MOFFETT ENGINEERING CO., 579 Cleveland Ave., Albany, Calif.—Engineered Process Equip. Co., 774 E. Green St., Pasadena, Calif.

MOISTURE REGISTER CO., 1510 W. Chestnut St., Alhambra, Calif.—James L. Kearns Co., 6055 N. E. Glisan, Portland; C. H. Spencer & Co., 210 W. 33rd South St., Salt Lake City; E. S. Browning Co., 1515 3rd St., San Francisco, and 2321 Yates St., Los Angeles.

MOLDCAST MFG. CO., 236 South St., Newark, N. J. —C. B. Gratiot Co., 1282 Folsom St., San Francisco; J. P. Penning, 2323 Second Ave., Seattle 1; C. A. Blakely, 754 Natoma St., San Francisco.

MOLONEY ELECTRIC COMPANY, 5390 Bircher Blvd., St. Louis 20, Mo.—Western Representatives: Garland-Affolter Engineering Corp. (in following cities), 2603 Western Ave., Seattle 1; 1233 N. W. 12th Ave., Portland 9; Subway Terminal Bldg., Los Angeles 13, 519 Holbrook Bldg., 58 Sutter St., San Francisco 4; Hamilton Associates, 1236 Elati St., Denver 4; Riter Eng. Corp., 1369 Major St., Salt Lake City 15, Utah; Ensign & Kempson, 4428 E. Washington, Phoenix; A. W. Graham, P. O. Box 69, Clovis, N. M.; R. E. McDonough, 829 Maryland Ave., Butte; Stubbs Elec. Co., 33 N. W. Park Ave., Portland; Columbia Electric, E. 3420 Ferry, Spokane 10; Daley Electric Sales Co., 1824 E. Jefferson St., Phoenix; Associated Engineers, 614½ Fitzgerald Road, N.W., Albuquerque; J. O. Malvin Co., 3101 North 36th St., Boise, Ida. (See ad, p. 53)

MONARCH ELECTRIC DIV., EL-TRONICS, INC., 118 E. First St., Jamestown, N. Y.—Keeler-White Co., 615 7th St., San Francisco; Hayjax Co., 436 Colyton St., Los Angeles; Keeler-White, Inc., 1041 6th Ave. So., Seattle; Keeler-White, Portland, 523 N.W. Everett, Portland; Nelson Co., 710 E. Louisiana Ave., Denver 10.

MONGERSON'S ELECTRICAL MACHINE WORKS, INC., 220 E. 19th St., Bakersfield, Calif.—John Allen Ware & Co., 737 W. Buchanan, Phoenix; H. S. Walling, 253 Fulton, Fresno, Calif.; Electrical Contractors Supply, 545 W. 20th, Idaho Falls; Piper Associates, 107 West 5th St. Vancouver, Wash.; Emerald Irrigation, 101 Hwy. & Spence Rd., Salinas, Calif.; Van Slyke Elec., San Bernardino, Calif.

MONITOR CONTROLLER CO., 99 Grove St., Rockland, Mass.—E. B. Cook Co., 1063 Howard St., San Francisco; National Parts Distr. Co., Inc., 451 N. Vermont Ave., Los Angeles 4, and 1075 Galapago St., Denver 4.

MONITOR EQUIPMENT CORP., 640 West 249th St., New York 71, N. Y.—Fred Kassler, 2300 Castillian Ave., Hollywood 28, Calif.; Conklin-Tamberg, Inc., 1355 Market St., San Francisco; George H. Williams Co., 5600 Tuxedo Terrace, Los Angeles 28; Dasco Wholesale Distrs., 4620 Leary Way, Seattle; Electrical Equipment Co. of Ariz., First Ave. at Madison, Phoenix; A. H. Jaeger Co., 1906 Bigelow Ave., Seattle.

MONTANA POLE & TREATING PLANT, INC., West Greenwood St., Butte, Mont.

MONTECELLO SPECIALTIES CO., 691 Broadway, New York City—James Mundstock, 417 Market St., San Francisco; W. A. McGuire, 164 S. Central Ave., Los Angeles; Collins H. Gillette, 2501 Crestmont Pl., Seattle.

MONTGOMERY MFG. CO., 202 S. Main St., Owensville, Ind.—The Clock Shop, 144 E. 14th St., Oakland; Time Clock Sales, 803 W. 11th St., both Los Angeles.

MONTROSE LOW VOLTAGE LIGHTING, 3527 N. Verdugo Road, Glendale, Calif.—M. J. Hooey & Co., 1485 Bayshore Blvd., San Francisco.

MORGAN POWER APPARATUS CORP., 19619 Marine View Dr., Des Moines, Wash.—Western Power Products, Inc., 2765 N.W. Nicolai, Portland.

MORGANITE, INC., 33-02 48th Ave., Long Island City 1, N. Y.—C. B. Knispel, 1115 West 16th St., Santa Ana, Calif.; M. R. Johnson, 1415 W. Court, Novato, Calif.

MORRISON-PELSUE, 2001 S. Bannock St., Denver 23, Colo.—A. F. Johnson, 10430 Burbank, North Hollywood; Hamilton Associates, 1236 Elati St., Denver; W. H. Pingree Co., 1035 South 7th West, Salt Lake City; Graybar Electric Co., Los Angeles, San Francisco and Seattle.

MORSE CO., FRANK W., 354 Congress St., Boston 10, Mass.—E. B. Cook, 1063 Howard St., San Francisco 3; Claude C. Frantz Co., 701 So. Gramercy Dr., Los Angeles.

MOSSMAN, INC., DONALD P., P. O. Box 265, Brewster, N. Y.—Mossman-Pacific, Inc., 776 W. Front St., Covina, Calif.; C. W. Mauldin Co., 441 W. California Ave., Palo Alto, Calif.; Franklin Sales Co., 2149 So. Clermont St., Denver 22.

MOTORCRAFT, Box 470, Muncie, Indiana—Tri-State Supply Company, 544 So. San Pedro, Los Angeles; 554 Bryant St., San Francisco, and 325 Westlake Ave. North, Seattle; Electrical Specialty Co., 158 Eleventh St., San Francisco 3; 418 E. Third, Los Angeles 13; 2406 First Ave. So., Seattle 1, and 1015 21st, Denver 2; H. G. Rising, Inc., 151 N. Vermont Ave., Los Angeles 5.

MOTOR GENERATOR CORP., West Water St., Troy, Ohio—Frank T. Butler, 722 Fern Glen, La Jolla, Calif.; Fred Pelletier Co., 3436 San Fernando Rd., Los Angeles; McCormick-Morgan, 324 5th St., San Francisco; Toncray Equip. Co., 1732 Blake St., Denver, 213 N. First Ave., Phoenix, and 1347 S. 17th East, Salt Lake City 8; Joseph C. Platt Co., 111 Bell St., Seattle; Richard G. Carnahan, 1218 S.W. Erickson, Beaverton, Ore.; Automotive Elec. Co., East 125 Mission Ave., Spokane.

MOTOROLA COMMUNICATIONS & ELECTRONICS, INC., 4501 Augusta Blvd., Chicago, Ill.—Branch Office: Donald F. Brickley, Div. Sales Mgr., 1616 Rollins Rd., Burlingame, Calif., 6555 Sunset Blvd., Hollywood 2, 3833 N. E. Union Ave., Portland, and 467 E. Third So., Salt Lake City; Wallace & Wallace, 1206 Maple, Los Angeles.

MUELLER ELECTRIC CO., 1583 E. 31st St., Cleveland 14, Ohio—Harry E. Marshall, 104 Olive St., San Francisco 9.

MULLENBACH, Div. of Electric Machy. Mfg. Co., 2100 E. 27th St., Los Angeles 58, Calif.—Fred G. Guthrie, 420 Market St., San Francisco 11; Mark G. Mueller, 1644 Blake St., Denver 2; W. C. Osborn, 7116 North 13th St., Phoenix; J. A. Tudor & Associates, Inc., 1004 S. E. Belmont, Portland 14, and 2605 Western Ave., Seattle 1; Riter Engineering Co., 1369 Major St., Salt Lake City 10.

MULLITE WORKS, Refractories Div., H. K. Porter Co., Inc., 95 Canal St., Shelton 1, Conn.—Branch Offices: 2947 E. 44th St., Los Angeles; 391 Sutter St., San Francisco.

MULT-A-FRAME, CORPORATION, 6401 Epworth Blvd., Detroit 10, Mich.—Peterson Co., 4949 Colorado Blvd., Denver; Buildingers' Specialties Inc., Greenwood at North 36, Seattle.

MULTI-AMP ELECTRONIC CORPORATION, 465 Lehigh Ave., Union, N. J.—J. A. Tudor & Associates, 1004 S.E. Belmont St., Portland 14, and 2605 Western Ave., Seattle 1; Slaybaugh-Thompson Co., 100 W. 13th Ave., Denver; Wrathall & Krusi, Inc., 681 Market St., San Francisco 5; Honolulu Electric Products Co., 630 Piikoi St., Honolulu.

MULTI ELECTRIC MFG. CO., INC., 4225 W. Lake St., Chicago 24, Ill.—C. B. Gratiot Co., 1282 Folsom St., San Francisco.

MURLIN MFG. CO., 200 S. Ambler St., Quakertown, Pa.—Allied Industries, 412 Seaton St., Los Angeles; E. A. Will, 534 First Ave. S., Seattle; Dahlbeck Electric Co., 580 Howard St., San Francisco.

MURPHY & CO., INC., JAMES A., Hamilton, Ohio—Valley Engineers, 416 N. Glendale Ave., Glendale, Calif.

MURRAY CO., Joppa & Forman Roads, Towson, Md. —A. H. Jaeger Co., 1906 Bigelow Ave., Seattle.

MURRAY MANUFACTURING CORP., 1210 Atlantic Ave., Brooklyn, N. Y.—Western Regional Office: 826 Traction, Los Angeles 13; Gaer Sales Co., 1625 W. 12th Ave., Denver; Northwest Sales Co., 1603 N. W. Johnson St., Portland, 1804 Bush Pl., Seattle 44, and 11616 E. 16th Ave., Spokane 64; Ernest F. Hauch Co., 735 Tehama, San Francisco.

MU SWITCH DIV., Acro Mfg. Co., 2040 E. Main St., Columbus, Ohio—(refer to Acro Division)

MYERS ELEC. PRODUCTS, INC., 3019 Vail Ave., Los Angeles 22, Calif.—Howard & Goepp Co., 1301 6th St., San Francisco; A. J. Nelson Co., 710 E. Louisiana St., Denver; Muth-Richards Co., 1804 Bush Place, Seattle 44; Donald Co., 3139 S.W. Altadena Terrace, Portland 19; Southwestern Sales Co., 6218 W. Indianola, Glendale, Ariz. (See ad, p. 52)

THE NARDA ULTRASONICS CORP., 625 Main St., Westbury, N. Y.—Regional Sales Office: E. Fioramonti, Mgr., 3259 Wilshire Blvd., Los Angeles 5. Distributors: Pacific Radionics, 2586 E. 67th St., Long Beach, and 485 Ramona, Rm. 9, Palo Alto, Calif.; Gene French Co., Phoenix, Ariz.; Electronic Lab Service, 750 Cherry St., Denver; Ray Johnston Co., 11009 Evanston Ave., Seattle 33; Industrial Eng. & Equipment Co., 2975 Wilshire Blvd., Los Angeles; Ralph B. Lundy, 1063 Howard St., San Francisco; L. B. Putnam, 1217 California St., Denver.

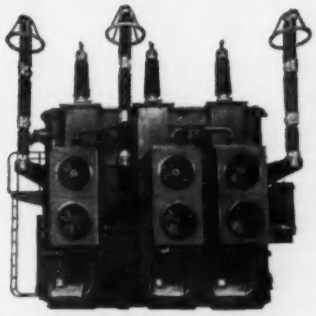
N L CORP., 2480 E. 22nd St., Cleveland, Ohio—John A. Schulter, 411 Weatherly Bldg., Portland 14; Richard C. English, 4229 122nd S.E. Bellevue, Wash.; Anson C. Boyd, 1400 S. St., Sacramento and Burt Schwartz, 1705 30th St., San Diego, Calif.; Arty W. Clark, P. O. Box 2402, Salt Lake City; Gregg N. Cloos, 977 Jackson, Denver 6; Robert B. Cooper, P. O. Box 3007, Billings, Mont.; W. C. Osborn, P. O. Box 6506, Phoenix.

NRC EQUIPMENT CORP., 160 Charlemount St., Newton 61, Mass.—Carl Herrmann Assoc., 551 E. Walnut St., Pasadena, and 291 Lambert St., Palo Alto, Calif.

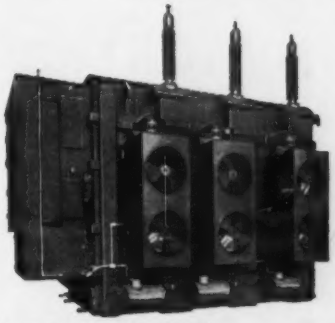
NARRAGANSETT WIRE CO., 1125 Main St., Pawtucket, R. I.—Branch: 640 N. Cypress St., Orange, Calif.; W. B. Imholt Co., 275 Brannan St., San Francisco; Wm. O. Proby & Associates, Inc., 2915 13th S.W., Seattle 24, and 1308 N.W. Everett, Portland 9; Manufacturers Sales, Inc., 413 E. Drachman, Tucson, Ariz.; Hayjax Co., 486 Colyton St., Los Angeles 13.

MOLONEY

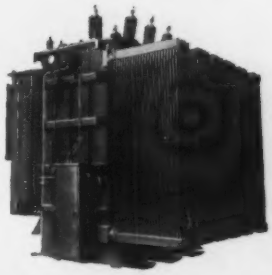
TRANSFORMERS . . . EVERY TYPE AND SIZE NEEDED FOR THE TRANSMISSION AND DISTRIBUTION OF ELECTRIC POWER



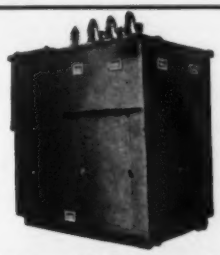
Power Transformers. Available in any Kva and voltage rating in both standard and special designs.



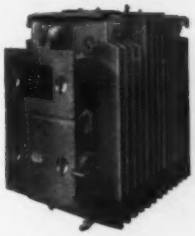
Load Tap Changing Transformers. A combination of Power Transformer and Automatic Load Tap Changing Equipment.



Regulating Transformers and Feeder Voltage Regulators to provide constant line voltage for all transmission and feeder lines.

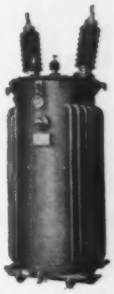


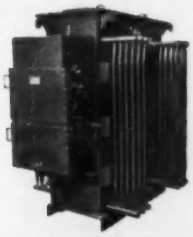
Integral Primary Unit Substations. A package unit for outdoor installations, incorporating an incoming high voltage section, a secondary circuit breaker and a Power Transformer with Automatic Load Tap Changing Equipment.



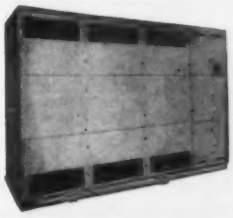
Subway and Vault Type Network Transformers either oil or askarel immersed.

Substation Transformers

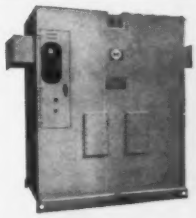




Oil or Askarel-Immersed Secondary Unit Substation Transformers.

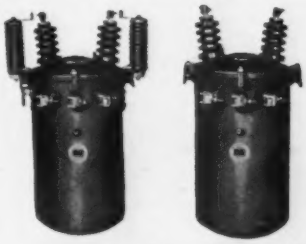


Ventilated Dry-Type Secondary Unit Substation Transformers (Group 2 Insulation). Suitable for indoor installations.

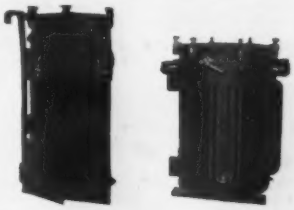


Nitrogen-Sealed Dry-Type Secondary Unit Substation Transformers (Group 3 Insulation). Suitable for outdoor or indoor installation.

Single-Phase Pole-Type Step Voltage Regulators. Self-contained and completely automatic. Equipped with Moloney's "Select-Amp" allowing the range of voltage regulation to be adjusted from a maximum of plus or minus 10% to a minimum of plus or minus 5%.



Conventional and CSP Single Phase or Three Phase Pole Type Distribution Transformers.



Constant Current Transformers are available in both Conventional and Packaged Unit Types.

MOLONEY ELECTRIC COMPANY

Sales Offices In All Principal Cities • Factories at St. Louis 20, Mo., and Toronto, Ont., Canada

(See listing, Sales Offices, p. 52)

NU-ART

LIGHTING & MFG. COMPANY

2360 West 21st South **Salt Lake City 4, Utah**

Over 20 years in creative design and precision lighting have earned Nu-Art a reputation for integrity, quality, dependability. Their solemn pledge to forge ahead with the best in lighting is your assurance of getting the most for every dollar.

Manufacturers of inside and outdoor lighting fixtures for: Shopping centers, service stations, parking areas, recreation areas, industrial areas, buildings, store fronts, billboards, highways, bulletin boards and other specific lighting problems.

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Western States

Joseph E. Shull & Son
3350 Whittier Blvd.
Los Angeles 23, Calif.

Stanley Sales Corp.
1122 Folsom Street
San Francisco, Calif.

Ralph Meislahn
P.O. Box 5162,
Terminal Annex
Denver, Colorado

Gerald Joseph
1220 Central Ave. S. E.
Albuquerque, New Mexico

T. Y. Emmett
Bruce-Emmett Co.
830 So. E. Alder St.
Portland 14, Oregon

Bruce-Emmett Co.
1016 1st Ave. South
Seattle, Washington

12103 East Boone
Spokane 67, Washington

FOR INFORMATION OF EAST COAST DISTRICT SALES OFFICES, CONTACT FACTORY

NASH ENGINEERING, South Norwalk, Conn.—S. C. Pardee, 681 Market St., San Francisco.

NATALE MACHINE & TOOL CO., 337 Highway No. 17, Carlstadt, N. J.—L. N. Curtis & Sons, 5808 College Ave., Oakland; Star Machinery Co., 801 S. Front, Portland; Midwest Service & Supply Co., 1333 S. Main St., Salt Lake City; Graybar Electric, Sacramento, and San Francisco, and Boise, Idaho; Western Fire Equipment Co., 69 Main St., San Francisco; Ralph C. Meislahn, 1632 17th St., Denver.

NATIONAL ACME CO., Electrical Mfg. Div., 12819 Coit Road, Cleveland, Ohio — Preston Machinery Co., 6703 Santa Fe, Huntington Park, Calif.; T. F. Pimper, Machinery, 458 Brannan St., San Francisco.

NATIONAL CARBON CO., Div. of Union Carbide Corp., 270 Park Ave., New York City 17—Branch Offices: Div. Mgrs.: H. D. Van Artsdale, Western Div. Mgr., Brush Railroad Products, W. J. Barkey, Jr., Pac. Div. Mgr., Electrode Prod., 22 Battery St., San Francisco.

NATIONAL ELECTRIC COIL DIV. McGRAW-EDISON CO., 800 King Ave., Columbus, Ohio—D. W. Hatfield, 1510 Harvard Ave., Salt Lake City 5; T. K. Hawkins, 3027 No. Durfee Ave., El Monte, Calif.

NATIONAL ELECTRIC DIVISION—(See H. K. Porter Co. Inc.)

NATIONAL ELECTRIC WELDING MACHINE CO., INC., 1846 N. Trumbull, Bay City, Mich.—Geo Tivy, 2230 W. 11th St., Los Angeles 6; R. E. Duboc Associates, 2353 S. Broadway, Denver 10; William M. Corns, Baywood Ave., Ross, Calif.

NATIONAL ENGINEERING & MFG. CO., 217 E. 16th St., Sedalia, Mo.—Henry Waxman & Associates 6511 Orion Ave., Van Nuys, Calif.; Coop & Merritt, P. O. Box 2601, Denver, and 2426 N. E. 47th St., Portland 13.

NATIONAL POLE & TREATING, Div., Minnesota & Ontario Paper Co., 500 Baker Arcade Bldg., Minneapolis 2, Minn.—Branch Office in Spokane, Wash.

NATIONAL RESEARCH CORP.—(See NRC Equipment Corp.)

NATIONAL SUPPLY CO., Tubular Division, 2 Gateway Center, Pittsburgh, Pa.—(Conduit Products) Egbert & Associates, 506 Russ Bldg., San Francisco; (Under floor Duct) Arthur & Allen, 420 Market St., San Francisco; Murphy-Hain Co., 333 So. Mission Rd., Los Angeles; Angevine & Johnson Co., 1412 25th Ave. No., Seattle 2; Allen B. Carpenter, 1314 Wazee, Denver; David M. Merrill, 192 N. First East, Farmington, Utah.

NATIONAL TELEPHONE SUPPLY CO., 5100 Superior Ave., Cleveland 3, Ohio—Thru Jobbers.

NATIONAL VULCANIZED FIBRE CO., P. O. Box 311 Wilmington, Delaware — Branch Offices: 2216 S Garfield Ave., Los Angeles; 535 Middlefield Rd. Palo Alto; 1253 Pearl St., Denver; 4001 Whitman Ave., Seattle.

NATVAR CORP., 211 Randolph Ave., Woodbridge, N. J.—Electrical Specialty Co., 158 Eleventh St. San Francisco; 2442 1st Ave. S. Seattle; 1822 N.W. 25th Ave., Portland 9; 2820 E. 12th St., Los Angeles; 2026 Arapahoe St., Denver; 2588 Simpson Ave., Salt Lake City, and P. O. Box 232, Phoenix.

NAYBOR LABORATORIES, E. V., 28 Manorhaven Blvd., Port Washington Long Island, N. Y.—Carl E. Holmes, 107 North Avenue 64, Los Angeles 42.

NEBRASKA BOILER & SUPPLY CO., 235 N. 9th St., Lincoln, Neb.—Johnson Engineering Co., 534 20th St., Oakland 12, Calif.; Champion Specialty Co., 4808 S. Broadway, Englewood.

NEDCO, 27 Jones Rd., Waltham, Mass.—Charles E Johnson Co., 4932 Rosewood Ave., Los Angeles; Stephen G. Smith, 1438 N. W. Hoyt St., Portland 9

NELSON, HERMAN, DIVISION—(See American Air Filter Co.)

NELSON ELECTRIC MFG. CO., 4041 S. Sheridan Rd., Tulsa, Okla.—Oliver B. Lyman, 55 New Montgomery St., San Francisco; Randolph Eng. Corp., 1029 N. 1st St., Phoenix, and Box 2097, El Monte, Calif.; Fred W. Carlson, 1201 Dexter Ave., Seattle 1, 935 N.W. 12th, Portland; Peterson Co., 4949 Colorado Blvd., Denver; Gates Co., 200 S. Main St., Salt Lake City.

NELSON STUD WELDING, Div. of Gregory Industries, Inc., Lorain, Ohio—Gregory Industries, Inc., 440 Peralta Ave., San Leandro, Calif., and 5463 Alhambra Ave., Los Angeles, and 1224 Walnut St., Denver; Industrial Supply Co., 121 Social Hall, Salt Lake City; Consolidated Welding Supply, 747 Grand Ave., Phoenix.

NEMCO SPEEDEX MFG. CO., 400 S. Wyman St., Rockford, Ill.—H. Bailis & J. B. Doniphan Co., 801 West 5th St., Denver; Cohn & Shane, Inc., 1323 Venice Blvd., Bob Jacobs, 8534 W. Colgate, and Al Axelrod, 1083 S. Crescent Heights, Los Angeles; Fuchsmann and Siegel, 1485 Bayshore Blvd., San Francisco; Nate Goodman, 1225 19th St., Denver; S. Winberg, 4117 E. Brownway, Tucson; Jim Morton, 10454 Second Ave. S., Seattle; G. Simon, 3257 W. Fairmont Blvd., Portland.

NEO-RAY PRODUCTS, INC., 315 E. 22nd St., New York 10, N. Y.—Neil Winikoff Co., 2700 Beacon Ave., Seattle; Gruen Lighting, 8336 W. 3rd St., Los Angeles 48.

NEPO, 4230 N. Sayre, Chicago, Ill.—Gregg Cloos, 977 Jackson Blvd., Denver; Rangely Distributing, 11166 Santa Monica Blvd., Los Angeles; Northwest Sales Co., 1603 N.W. Johnson St., Portland.

NEPTUNE-POWER PLUS PRODUCTS CO., 2228 Bellevue, Detroit 7, Mich.—Westinghouse Electric Supply, Graybar Electric Co., Inc., and General Electric Supply Corp., in all principal cities.

NESBITT, INC., JOHN J., State Road & Rhawn St., Philadelphia Pa.—John Morley & Assoc., 1001 Tennessee St., San Francisco 7; Gil Moore & Co., 310 N. Normandie, Los Angeles 4; Howard A. Weller Co., 2925 N. E. Glisan, Portland; W. A. Crowder, 1800 Taylor Ave., Seattle 9.

NEW ENGLAND CARBIDE TOOL CO., INC., 55 Commercial St., Medford 55, Mass. — Hobelmann & Co., Inc., 225 Kansas St., San Francisco; Bruce P. Rutherford, Inc., 1954 First Ave. S., Seattle, and 122 First Ave. S. W., Portland; Dillon Stevens & Co., 1348 Venice Blvd., Los Angeles; C. C. Warner, 3063 Albion St., Denver.

NEW ENGLAND MICA CO., INC., 66 Woerd Ave., Waltham, Mass.—Insulation & Wires, Inc., 1077 Howard St., San Francisco; 6415 E. Fleet St., Los Angeles 22, and 525 N. Tillamook St., Portland; Tri-State Supply Corp., San Francisco, Los Angeles, Seattle.

NEW JERSEY WOOD FINISHING CO., Amboy Ave., Woodbridge, N. J.—C. D. Ma Moree 2433 Birkdale St., Los Angeles, and 2221 4th St., Berkeley 2; C. E. Riggs, Inc., 422 N. W. 8th, Portland 9, and 408 Occidental, Seattle 4.

NEWPORT NEWS SHIPBUILDING & DRY DOCK CO., Newport News, Va.—Contact Factory. (See ad, p. 49)

NEW YORK SOLDER CO., INC., 684 E. 133rd St., New York City—R. B. Haskell, 200 Davis St., San Francisco; H. B. Deming, 1423 S. Hill St., Los Angeles.

NIAGARA ELECTRICAL INSTRUMENT CO., 45 Allen St., Buffalo, N. Y.—Arthur E. Booth Co., 265 S. Alexandria Ave., Los Angeles 4.

NIAGARA TRANSFORMER CORP., 1747 Dale Road, Buffalo, N. Y.—Ray L. Martin & Sons, 725 N. E. 25th St., Portland; Maddox Sales Co., 914 E. Third St., Los Angeles 13, 420 Market St., San Francisco, and 5709 N. 19th Place, Phoenix; Marshall R. Elmore, 140 Little Flower Rd., El Paso.

NICAD DIV. GOULD-NATIONAL BATTERIES, INC., 172 Pleasant St., Earthampton, Mass.—T. A. Ford, 402 Agostino Rd., San Gabriel, Calif.; K. M. Ryals Co., 9 First St., San Francisco; Andrew L. Polich, Inc., 734 N. W. Glisan St., Portland 9; Automatic Control & Equipment Co., 5750 Pecos St., Denver 11; Monitor Distributors, Inc., 604 Utah Ave., Butte, Mont.; S. A. Stephens Co., 55 New Montgomery St., San Francisco.

NIFE, INC., Coplague,, L. I., N. Y.—Carlson Sales, Inc., 1201 Dexter Ave., Seattle, and 935 N. W. 12th, Portland; Eddy Electric Products, Inc., P. O. Box 1428, Phoenix; Gordon H. Proffitt, World Trade Center, San Francisco 5; Moralee W. Silver, 1771 E. 9th South, Salt Lake City 5; Warren C. Webb, 1709 W. 8th St., Los Angeles 17; Peterson Co., 4949 Colorado Blvd., Denver 16.

NIKOH TUBE CO., 5000 S. Whipple St., Chicago, Ill. —Agencies Co., 836 Traction Ave., Los Angeles.

NITROSE CO., INC., 1st National Bank Bldg., Peoria, Ill.—T. T. Watson Co., 1226 Bailey St., Seattle; Waldron, Duffy & Smith, Inc., 941 - 6th St., San Francisco; Metropolitan Supply Co., 1153 S. Greenwood, Montebello, Calif.

NOBLE CO., 1860 7th St., Oakland, Calif.

NORMA-HOFFMAN BEARINGS CORP., Stanford, Conn. — Walker Div., T. A. Ford, 402 Agostino Rd., San Gabriel, Calif.; Harold R. Swanton, Inc., 498 Brannan St., San Francisco, 2739 4th Ave. S., Seattle, 1706 S. Grand Ave., Los Angeles.

NORTH AMERICAN ELECTRIC LAMP CO., 1520 North 13th St., St. Louis, Mo.—F. J. Airey Co., 2324 East Hunter St., Los Angeles 21.

NORTH ELECTRIC CO., 553 S. Market St., Galion, Ohio—H. E. Peters, 105 Roundup Rd., Glendora, Calif.; R. E. Butts, 643 S. Pasadena Ave., Azusa, Calif.; Inland Associates, 1480 Hoyt St., Lakewood, Colo.; C & H Supply Co., King County Airport, Boeing Field, Seattle 8.

NORTHEASTERN ENGINEERING, INC., 25 S. Bedford St., Manchester, N. H.—J. K. Dooley Co., 3215 Western Ave., Seattle 1; McLoud & Raymond Co., 5403 E. Evans Ave., Denver 22; J. T. Hill Co., 420 S. Pine St., San Gabriel, Calif., 1864 Bacon St., San Diego; 1682 Laurel St., San Carlos, Calif.; and 318 West State Ave., Phoenix, Ariz.

NORTHERN LIGHT CO., 1661 N. Water St., Milwaukee, Wis.—E. T. Vonier Co., 1160 Elati St., Denver 3.

NORTHWESTERN ELECTRIC CO., 1750 N. Springfield, Chicago, Ill.—Representatives: Electrical Manufacturers' Representatives, Inc., P. O. Box 3425, Terminal Annex, Los Angeles 54; W. J. Stulgis Co. Inc., 608 W. Crockett St., Seattle 99.

NORWOOD CONTROLS — Detroit Controls Corp. 934 Washington St., Norwood, Mass.—J. T. Hill Co., 420 S. Pine St., San Gabriel, Calif., and 1864 Bacon St., San Diego; Landes, Zachary & Peterson Bacon St., San Diego, and 1682 Laurel, San Carlos, Calif.; Landes, Zachary & Peterson Co., 275 Kalamath St., Denver 23, and 1682 Laurel St., San Carlos, Calif.; 1900 Mills St., El Paso, and 153½ West 2nd St., Salt Lake City

NOTTINGHAM & CO. INC., J. B., 441 Lexington Ave., New York City, N. Y.—Henry Viets, 1965 Pacific Ave., Long Beach, Calif.

NU-ART LIGHTING & MFG. CO., 2360 West 21st South, Salt Lake City 11, Utah—Bruce-Emmett Co., 830 S. E. Alder St., Portland, 12103 E. Boone, Spokane, 1016 1st Ave. So., Seattle 4; Joseph E. Shull & Son, 3350 Whittier Blvd., Los Angeles 23; Stanley Sales Corp., 1122 Folsom St., San Francisco; Ralph Meislahn, 1632 17th St., Denver 2; Gerald Joseph, 1220 Central Ave., S. E., Albuquerque. Distributors in all principal cities. (See ad, p. 54)

NULCO MFG. CO., 335 Barton St., Pawtucket, R. I. —M. A. Wagner, 1075 Broadway, Belmont, Calif.; Nulco Mfg. Corp., 3038 Overland Ave., Los Angeles.

NU-LITE CORP., 41 S. 6th St., Newark, N. J.—Branch R. C. Harris, 1133 Solano Ave., Albany, Calif.

NU-LITE FLUORESCENT MFG. CO., INC., 1212 S. Olive St., Los Angeles 15, Calif.

NUTONE, INC., 237 West 30th St., Los Angeles 7, Calif.—Branch Offices: 408 9th Ave. No., Seattle 7; Joe Scharfen, 308 11th St., San Francisco 3; J. R. Christensen, 249 East 5th So., Salt Lake City 2; L. C. Brady, 10850 West 73rd Place, Arvada, Colo.; J. T. Cruickshank, 541 W. Claremont Ave., Phoenix; R. L. Davidson, 10033 Fuerte Dr., La Mesa, Calif.; Lawrence Haneberg, 818 South St., Honolulu 2.

NYE TOOL CO., 4120 W. Fullerton Ave., Chicago 39, Ill.—Branch: J. B. Roewe, 241 Poppy Ave., Corona Del Mar, Calif. Distributors in all principal cities: Graybar Electric, Crane Co., all West Coast branches.

NYLON MOLDING CORP., 141 South Ave., Garwood, N. J.—Branch: 15235 Saticoy St., Unit 3, Van Nuys, Calif.

OHIO BRASS COMPANY, Mansfield, Ohio—Branch Offices: A. M. Bohnert, Mgr., 1503 Hobart Bldg., San Francisco; V. L. Crabb, 930 Subway Terminal Bldg., Los Angeles; C. R. Kingsbury, 1606 Northern Life Tower, Seattle; J. S. Veatch, 2390 S. Jackson, Denver 10. Agent for Dist. Materials: Graybar Electric Co., Inc., all cities; F. W. Gorman, 1701 Texas St., El Paso; John Ridenbaugh-F. W. Gorman, 1330 No. 12th St., Albuquerque; Harold Hunn-F. W. Gorman, P. O. Box 10065, Phoenix.

OHIO CARBON CO., 12508 Berea Road, Cleveland 11, Ohio—Representatives: C. F. Bowers, 544 S. San Pedro St., Los Angeles 13. Distributors: Tri-State Supply Corp. in following cities: 544 S. San Pedro St., Los Angeles 13; 554 Bryant St., San Francisco 7; 325 Westlake Ave. No., Seattle 9; Hendrie & Bolthoff Co., 1635 17th St., Denver 17; Nixon-Kimmel, 167 S. Wall, Spokane; Kalispell Merc. Co., Kalispell, Mont.; J. Korber & Co., 200-224 N. Second St., Albuquerque.

OHIO ELECTRIC MFG. CO., 5400 Dunham Rd., Maple Heights, Ohio—Electric Motor Engineers, 8255 Beverly Blvd., Los Angeles 48; F. E. Bennett Co., 426 N. W. 6th Ave., Portland 9.

OHMITE MFG. CO., 3601 Howard St., Skokie, Ill.—Herb Becker Co., Inc., 1140 Crenshaw Blvd., Los Angeles 19; Belchamber & French, 1485 Bayshore Blvd., San Francisco 24; Shefler & Kahn Co., P. O. Box 1587, Phoenix; McLoud & Raymond Co., 5403 East Evans, Denver 22; Marsh Agencies, 2601 First Ave., Seattle 1.

OKONITE COMPANY, 220 Passaic St., Passaic, N. J. —Branch Offices: E. J. Danielson Reg. Mgr., West Coast Region, 6500 E. Washington Blvd., Los Angeles 22; 230 Shaw Road, South San Francisco; 320 S. W. Stark St., Portland 4, and 1935 South Main St., Salt Lake City 15.

OLIN CONDUCTORS, METALS DIV. OLIN MATHIESON CHEMICAL CORP. (Formerly Southern Elec'l Co.), P. O. Box 989, Chattanooga, Tenn.—Roy E. Coulson, P. O. Box 9215, Phoenix; Hamilton Associates, 1236 Elati St., Denver 4; Garland Affolter Eng. Corp., 58 Sutter St., San Francisco 4, 2603 Western Ave., Seattle, and 417 So. Hill St., Los Angeles.

OLIN MATHIESON CHEM. CORP., Elec'l Div., 275 Winchester Ave., New Haven 4, Conn.—R. L. Biersach, 2239 South Yates Ave., Los Angeles 22.

SUBOX PAINTS

Corrosion protection has too long been associated with drab appearance. Now you can paint to have modern protection plus modern color styling.

Subox paints are now blended in a range of tones which make it possible to decorate property and make unsightly structures pleasing. Give your own good taste free rein.

Regardless of the colors you choose, you will be assured of the most tenacious kind of corrosion protection. Subox paints are the only American paints made with *suboxide of lead.* They remain chemically active, even after drying, to form an interlocking fibrous film that withstands the most punishing exposures.

Subox paints are very economical. One or two coats do the work of two or three of ordinary paints. And a Subox application lasts an average of 6 to 8 years.

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Subox Inc.

Trade Mark

Established 1924

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The Ambler Co., Denver, Colo.; Carlson Sales, Inc., Butte, Mont., Seattle, Wash.; W. J. Cottrell & Assoc., Portland, Ore.; R. E. Cunningham & Son, Los Angeles, Cal.; Wrathall & Krusi, San Francisco, Cal.

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Matt Cabot & Associates
P.O. Box 3708
Honolulu 11, Hawaii
SAN FRANCISCO
West Coast Warehouse
275 Brannan Street
San Francisco, Calif.
Eugene C. Young
1245 Divisadero St.,
San Francisco, Calif.
LOS ANGELES
West Coast Manager
William H. H. Reeder
1444 Oaklawn Road
Arcadia, Calif.
J. G. Pomeroy Company
1004 East Fourth Street
Los Angeles 13, California
PORTLAND
Shaffer & Nelson
1001 S. E. Water Ave.
Portland 14, Oregon
SALT LAKE CITY
Shaffer & Nelson
Room 201
1415 S. Main Street
Salt Lake City 15, Utah
SEATTLE
Shaffer & Nelson
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INCORPORATED
Syracuse 9, New York

OLIVER ELECTRICAL MANUFACTURING CO., 170 Angell St., Battle Creek, Mich., and 1150 Wood St., California, Washington County, Pa.—Matzinger-Johnson, 1329 Willow St., Los Angeles 13; Sales Engineers Co., 211 Wazee Market, Denver 4; Shaffer and Nelson, 312 Occidental Ave., Seattle,1001 S. E. Water Ave., Portland, P. O. Box 198, Spokane 10, and 1415 S. Main St., Salt Lake City 15; The Curry Co., 190 Lombard St., San Francisco.

OLSEN TESTING MACHINE CO., TINIUS, 2100 Easton Rd., Willow Grove, Pa.—Pacific Scientific Co., 760 Harrison St., San Francisco. Branches in Seattle, Portland and Los Angeles.

OLYMPIC INSTRUMENTS INCORPORATED, Vashon, Wash.—Ernst F. Hauch, 735 Tehama, San Francisco 3; National Wire & Cable Corp., 136 San Fernando Rd., Los Angeles 31. (See ad, p. 96)

ONAN & SONS, INC., D. W., University Avenue S. E. and 25th, Minneapolis, Minn.—Factory Representatives: Frank Gernand, 1588 Edgewood Dr., Palo Alto, Calif.; Les Leland, 2800 Tennyson St., Denver 12. Also sold through authorized distributors all principal cities.

ORANGEBURG MFG. CO., Div., Flintoke Co., Orangeburg, N. Y.—Plant: 6756 Central Ave., Newark, Calif., J. M. Monahan, Dist. Mgr.; R. F. Ohlson, 101 Jones Bldg., Seattle; W. P. Paulson, 12332 Cinnabar Road, Santa Ana, Calif.; G. M. Moller, 2980 Ward Court, Lakewood, Colo. Distributed by Graybar Elec. Co., Inc., and General Electric Supply Co., all branches; Fred D. Benz, 520 4th St., San Francisco; Sheeter & Co., 2508 West 6th St., Los Angeles; Shaffer & Nelson, Inc., 312 Occidental Ave., Seattle.

ORCHARD INDUSTRIES, 1955 Thomas St., Hastings, Mich. — Best Lineman's Supply Corp., 541 First Ave. So., Seattle 4.

ORYX CO., 13804 Ventura Blvd., Sherman Oaks, Calif.

OSMOSE WOOD PRESERVING CO., 980 Elliott St., Buffalo, N. Y.—Dan Kamphaeusen Co., Continental Oil Bldg., Denver, Colo.

OSTER MFG. CO., JOHN, 5055 N. Lydell Ave., Milwaukee, Wis.—Branch Offices 333 9th St., San Francisco, and 1431 S. Los Angeles St., Los Angeles; Allen B. Carpenter, 1414 Wazee St., Denver; Robert W. Backman, 12032 25th Ave., S. W., Seattle; Crouse Sales Co., 712 Emily St., Honolulu.

OVERBAGH & AYRES MFG. CO., 411 S. Clinton St., Chicago, Ill.—Hal A. Gardner & Son, 2616 Second St., Seattle 4. Sold through electrical distributors.

OWENS-CORNING FIBERGLAS CORP., Nicholas Bldg., Toledo, Ohio—Plant, 960 Kifer Road, Santa Clara, Calif.; Blackwood's, Inc., 3609 E. Olympic Blvd., Los Angeles 23; Electrical Specialty Co., 158 11th St., San Francisco 3; Insulation Supply, 779 E. Pico Blvd., Los Angeles 21; C. D. LaMoree Co., 2433 Birkdale, Los Angeles; Western Fibrous Glass Products Co., 3049 East 12th St., Los Angeles 23.

O. Z. ELECTRICAL MFG. CO., INC., 262 Bond St., Brooklyn, N. Y.—Branch Office: Stanley Bliss, 749 Bryant St., San Francisco; Agencies Co., 836 Traction Ave., Los Angeles; Wm. A. Proby Associates, 2915 13th S. W., Seattle, and 1308 N. W. Everett St., Portland; Everett T. Vonier, Inc., 201 Wyandot, Denver; Keith Lagerstrom, 1225 E. 8750 South, Sandy, Utah. (See ad, p. 57)

P-C COMPANY, 138 Railroad Ave., Edmonds, Wash. Sold thru wholesalers and direct factory sales.

PLM PRODUCTS INC., 3862 W. 150th St., Cleveland 11, Ohio—Sold through major cable companies. (See ad, p. 59)

PRD ELECTRONICS, INC., 1608 Centinela Ave., Inglewood, Calif.—Ault Associates, 120 Santa Margarita Ave., Menlo Park, Calif.; David G. DeHaas Co., 1923 Cable St., San Diego, Calif.; J. K. Dooley Co., 3215 Western Ave., Seattle; Barnhill Assoc., 1170 S. Sheridan, Denver.

P-W INDUSTRIES, INC., 11200 Roosevelt Blvd., Philadelphia, Pa.—Oliver B. Lyman, 55 New Montgomery St., San Francisco; Technical Service Co., 419 Granite, N. W., Albuquerque; Landes, Zachary & Peterson Co., 601 S. Jason St., Denver 23; Electrical Sales Co., P. O. Box 49, Sugarhouse Sta., Salt Lake City; Calrepco, 1417 Georgia St., Los Angeles 15; Carlson Sales, Inc., 935 N. W. 12th St., Portland, 1201 Dexter Ave., Seattle 9, and 604 Utah Ave., Butte, Mont.

PACIFIC CAR & FOUNDRY CO., 4th and Factory, Renton, Wash.—Sold through sales offices of Westinghouse Elec. Corp., Westinghouse Electric Supply Co., General Electric Co., General Electric Supply Co., Graybar Electric Co., Inc., Line Material Co., North Coast Electric Supply and North West Electric Company.

PACIFIC CHROMALOX INC., 131 W. Rialto, San Bernardino, Calif.—Montgomery Brothers, Inc., in following cities: 1122 Howard St., San Francisco, 4800 District Blvd., Los Angeles, 1632 N. W. Johnson, Portland, 911 Western, Seattle; 5103 N. Hawthorne, Spokane, and 1331 T St., Sacramento, Calif.

PACIFIC COAST BORAX CO., 630 Shatto Place, Los Angeles, Calif.—(See U. S. Borax & Chem. Corp.)

PACIFIC COAST ENGINEERING, Oak and Clement Sts., Alameda, Calif.—Branch in Los Angeles.

PACIFIC CONDUIT & CABLE (Formerly Saylor Elec. Products), 1725 Standard Ave., Glendale 1, Calif.

PACIFIC CROSSARM CO., 3950 Chevy Chase Dr., Los Angeles, Calif.—Matzinger-Johnson Co., 1329 Willow St., Los Angeles 13.

PACIFIC ELECTRICORD COMPANY, 3217 Exposition Place, Los Angeles 18, Calif. — Loren R. Butler, 4252 Lorabelle Ct., Palo Alto, Calif.; Norman J. Fuchs Co., 2814 No. 15th Ave., Phoenix; Scott & Bunker, 1863 Wazee, Denver; George E. Spencer, 1633 N. W. 21st St., Portland 9.

PACIFIC LIGHT METALS FOUNDRY, 4200 N. W. Yeon Ave., Portland, Ore.—Western Power Products, 2765 N. W. Nicolai, Portland.

PACIFIC OERLIKON CO., 3001 N. Starr St., Tacoma, Wash.—(See United Power Control Corp.)

PACIFIC PUMPS, INC., 5715 Bickett St., Huntington Park, Calif. — Branch: 417 Market St., San Francisco 5; Arthur Forsythe Co., 2800 15th Ave., West, Seattle 99; Lee Redman Equip. Co., 610 So. 19th Ave., Phoenix; G. M. Wallace & Co., Denham Bldg., Denver 2; E. S. Constant Co., 1814 S. E. Seventh St., Portland 14; Smith Machinery Co. Inc., 1116 Richards St., Salt Lake City.

PACIFIC RESISTOR CO., 2320 Pontius Ave., Los Angeles 64.

PACIFIC SOUTHWEST PIPE CO., 6800 Avalon, Los Angeles 3, Calif. — Garrison Co., Builders' Exchange, 850 S. Van Ness, San Francisco 10.

PACIFIC SWITCHGEAR, Div. of Federal Pacific Electric Co., Santa Clara, Calif. (See also listing under Federal Pacific Electric.)

PACIFIC WIRE ROPE CO., 1840 East 15th St., Los Angeles 21, Calif.—Branch Offices: 607 Addison St., Berkeley, Calif.; 3615 N. W. St. Helens Road, Portland; Matzinger-Johnson, 1329 Willow St., Los Angeles.

PACSOL DIVISION, Illinois Tool Works, 3155 W. El Segundo Blvd., Hawthorne, Calif.—James Findlay Co., P. O. Box 717, Bellevue, Wash.; Miner and Assoc., 115 Main St., El Segundo, Calif.

PAINE COMPANY, 2323 Farrington, Dallas, Tex.—James E. Cullum Co., 2006 Center St., Tacoma, Wash.; W. C. Osborn, 7116 No. 13th St., Phoenix; Kreiger-Koufax Co., 429 S. Western Ave., Los Angeles 5.

PALMER MFG. CO., 11021 Palmer Ave., South Gate, Calif.

PALMER MFG. CORP., 2200 W. Fillmore, Phoenix, Ariz.—Joseph P. Wagner, 3315 No. 60th St., Phoenix, Ariz.; Ward Francis Co., 222 Terminal Sales Bldg., Seattle 1; Western Merchandise Mart, 1355 Market St., San Francisco 3, and 1533 Wilshire Blvd., Los Angeles 17; Alex Weitz, 17228 Hatteras St., Encino, Calif.

PALNUT COMPANY, Mountainside, N. J.—For Calif., W. D. Howze & Co., 5603 N. Figueroa St., Los Angeles 42; R. C. Dudek, 407 N. Maple Dr., Beverly Hills, Calif. Outside Calif. and N. M.: United-Carr Fastener Corp., 1709 W. 8th St., Los Angeles 17.

PAM CO. (Formerly Elwood H. Wiles Co.), 1951 N. W. Wilson, Portland Ore.—Municipal Supply Co., 955 Stuart, Seattle; Sherman Nabaum, 4777 South 13th, Salt Lake City; Hundley Co., 3282 Fletcher Dr., Los Angeles.

PANDUIT CORP., 14461 Waverly Ave., Midlothian, Ill.—Walter Corman, 7432 W. 80th St., Los Angeles; Campbell & George, 1601 Cortland Ave., San Francisco; E. H. Sosine, 3618 39th Ave. W., Seattle 99; E. F. Howe, 4328 N. 42nd Place, Phoenix; Electronic Components Sales, 2149 S. Clermont, Denver 33. Distributors: Phillips & Edwards, 265 Vermont St., San Francisco; California Wholesale Elec., 2548 Yates Ave., Los Angeles; Coast Electric, 744 G St., San Diego; North Coast Elec., 171 Jackson St., Seattle 4; Stubbs Elec. Co., 33 N. W. Park Ave., Portland 9; Ward Terry & Co., 70 Rio Grande Blvd., Denver 1; Standard Supply Co., 225 East 6th So., Salt Lake City; National Elec. Supply Co. Ltd., 611 Keeaumoku St., Honolulu 11.

PANELLIT, INC., DIV. ISI, INC., 7401 N. Hamlin Ave., Skokie, Ill.—M. D. Shriver Co., Inc., 3155 N. Rosemead, Rosemead, Calif., and 1485 Bayshore Blvd., San Francisco; Tower Equip. Co., P. O. Box 158, Mercer Island, Wash.; James B. Drummond Co., 1060 S. Cook St., Denver.

PANELYTE DIV. ST. REGIS PAPER CO. (See St. Regis)

PARAGON ELECTRIC CO., 1600 12th St., Two Rivers, Wis. — Branch Office: 926 South Atlantic Blvd., Los Angeles; McCune-Western, Inc., 51 Fremont St., San Francisco; Roy J. O'Donnell Co., 2256 S. Delaware St., Denver 3; John B. Merifield Co., Inc., 909 Western Ave., Seattle 4. (See ad, p. 103)

PARAMOUNT INDUSTRIES, INC., G 1080 Ballenger Rd., Flint, Mich.—S. H. Babcock, 3573 Pierce St., San Francisco; E. J. Imhof, 711 S. Vermont Ave., Sandy, Utah; Gregg Cloos, 977 Jackson, Denver; John Allan Ware Assoc., 301 West G St., San Diego, and 721 W. Buchanan, Phoenix.

PARANITE WIRE & CABLE DIV., Essex Wire Corp. of Calif., 6415 Fleet St., Los Angeles; 274 Harbor Way, So. San Francisco; 3322 N. W. 35th Ave., Portland; 2208 White-Henry-Stuart Bldg., Seattle; 213 North First Ave., Phoenix, and 155 Van Ness, Fresno, Calif.

PARKER ELECTRICAL MFG. CO., 221 Washington St., Oakland, Calif.—Sold Direct.

PARTLOW CORP., 2 Campion Road, New Hartford, N. Y.—Pacific Scientific Co. in following cities: 760 Harrison St., San Francisco; P. O. Box 22019, Los Angeles; 421 Michigan St., Seattle 8; 1218 S. E. 7th Ave., Portland 14; Sleybaugh-Thompson Co., 100 W. 13th Ave., Denver.

PARTRICK & WILKINS CO., 51 North 7th St., Philadelphia, Pa.— Rollins Electric, 804 So. Atlantic Blvd., Monterey Park, Calif.

PASS & SEYMOUR, INC., 50 Boyd Ave., Solvay, Syracuse, N. Y.—J. G. Pomeroy Co., 1004 East 4th St., Los Angeles 13; Eugene Young, 275 Brannan St., San Francisco 7; Wm. Reeder, 1444 Oaklawn Rd., Arcadia, Calif.; R. T. Lewis & Co., 1301 Pierce St., Lakewood, Colo.; Shaffer & Nelson, 1001 S. E. Water, Portland 14; 312 Occidental Ave., Seattle 4; West 1835 Broadway, Spokane 17, and 1415 S. Main, Salt Lake City 15; Ralph B. Black, 721 Loma Vista Dr., N. E., Albuquerque; Matt Cabot & Assoc., P. O. Box 3708, Honolulu, Hawaii. (See ad, p. 56)

O. Z. ELECTRICAL MANUFACTURING CO.

Sales Office and Warehouse
406 So. Cicero Avenue
Chicago 44, Illinois
ESterbrook 9-0326

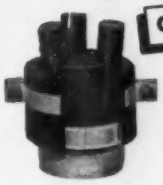
262 BOND STREET, BROOKLYN 17, N. Y.

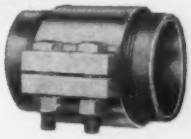
Representatives in all Principal Cities

Office and Factory
749 Bryant Street
San Francisco 7, Calif.
GArfield 1-7846

CONDUIT FITTINGS

CABLE SUPPORTS CONDUIT TYPE


CABLE SUPPORTS SPLIT TYPE


SPLIT COUPLINGS

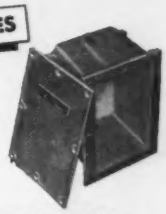
EXPANSION FITTINGS

INSULATED BUSHINGS

BAKELITE BUSHINGS

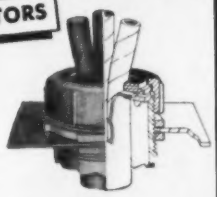
CAST IRON BOXES

EXPLOSION-PROOF TYPE

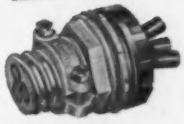

WEATHERTIGHT SUBMERSIBLE TYPE

CABLE TERMINATORS

TERMINATING POTHEADS


SEALING BUSHINGS

INTERLOCKED ARMOR CABLE FITTINGS

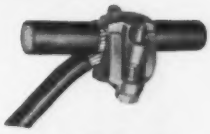

TERMINATORS

SPLICING FITTINGS

SOLDERLESS CONNECTORS

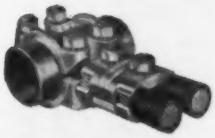
COMBINATION LUGS

COMBINATION TWO-WAY CONNECTORS


SERVICE TAP

COMBINATION TEE AND PARALLEL CONNECTORS

POWER CONNECTORS


T-CONNECTORS, TUBE TO MULTIPLE CABLE TYPE

BUS BAR CLAMPS

GROUND CONNECTORS

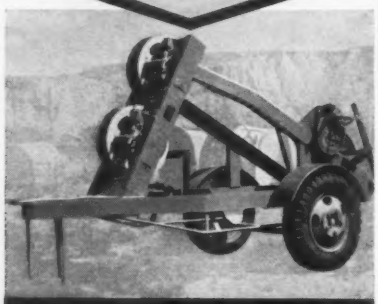
CABLE TO PIPE OR ROD 90° OR PARALLEL

CABLE TO FLAT BAR

They're O. K. if They're O. Z.

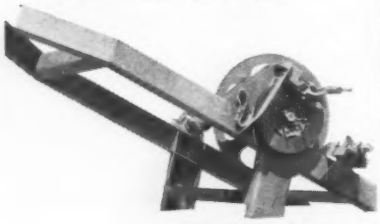
(See listing, Sales Offices, p. 56)

Now—Convert your own Reel Dolly to a Bullwheel Tensioner WITH A PENGO 5000-U Assembly



5000-U assembly installed by City of Medicine Hat, Alberta, Canada

Here's an easy way to build up a modern bullwheel tensioner at low cost—simply install a PENGO 5000-U Bullwheel Assembly to your old trailer or reel dolly. You'll have a tensioner with Neoprene-lined 26" bullwheels, capable of handling practically any distribution line stringing job at tensions to 2,000 lbs. at up to 4 mph.



Support arms, reel spindle with reel brake, and hand rewind assembly. 2⅝" spindle will handle reels to 75" diameter, 44" width unless reduced to fit your trailer.

Bullwheel and tension brake assembly may be purchased separately.

We invite you to write or wire for literature, prices—please address Dept. 34

PETERSEN ENGINEERING COMPANY, INC.
Santa Clara, California
Phone: AXminster 6-7712

PAULDING, INC., JOHN I., New Bedford, Mass.—Branch Offices: 615 Second St., San Francisco; 1238 N. W. Glisan, Portland; 1855 Industrial St., Los Angeles.

PEER, INC., 1200 Milton St., Benton Harbor, Mich.—Hendrie & Bolthoff, 1635 17th St., Denver; Gallgher Co., 545 W. 8th South St., Salt Lake City; O'Neill Machinery Co., 1011 Howell St., Seattle; Gibson Welding Supplies, E. 218 Trent Ave., Spokane; Hickinbotham Bros., Ltd., 536 S. Aurora St., Stockton, Calif.; Pacific Welding Alloys Mfg. Co., 310 N. Avenue 21, Los Angeles.

PEERLESS ELECTRIC CO., 1401 West Market St., Warren, Ohio. (See H. K. Porter Co. Inc.)

PEERLESS ELECTRIC CO., 576 Folsom St., San Francisco, Calif.—Richard C. English, & Assoc., 4229 122nd Ave., S. E., Bellevue, Wash.; John Allen Ware Associates, 301 West G St., San Diego, and 717 Buchanan St., Phoenix; C. A. Peterson Co., 782 E. 14th Place, Los Angeles; Alan Humphrey, 505 Mason Bldg., Fresno, Calif.; Vic W. Colbourn, 3871 Piedmont Ave., Oakland, Calif.

PELTON DIVISION, B. L. H. Corp., 2929 19th St., San Francisco, (See Baldwin Lima Hamilton).

PENETRAY CORP., 615 Front St., Toledo, Ohio—Branch Office: Leonard Holzman, 1328 S. Santa Fe, Los Angeles; Vernal Bingham, 4315 E. 43rd St., Seattle; J. M. Gaisford, 3121 East 12th St., Los Angeles; Charles Gratiot, 1282 Folsom, San Francisco; A. J. Nelson, 710 E. Louisiana, Denver. For Automotive Trade: Lawrence Shriver, 714 W. Olympic, Los Angeles. For Drug Trade: Tom Stanger Co., 2133 Bay St., Los Angeles, and Stone Hall Co., 3101 Walnut, Denver.

PENN CONTROLS, INC., Goshen, Ind.—Branch Offices: 2729 San Pablo Ave., Berkeley, Calif.; 2930 College St., Los Angeles; 617 Ravenna Blvo., Seattle. Agents: Edwin P. Cook, 845 Wyandot, Denver 2; Specialty Sales Co., 117 West Second So., Salt Lake City; Control & Equip. Co., 5106 Grand Ave. N.E., Albuquerque.

PENN ELECTRICAL CO., 54 Water St., Irwin, Pa.—Central Station Equip. Co., 2323 Aviation Highway, Tucson, Ariz.

PENNINGTON CROSSARM CO.—Maydwell & Hartzell, Inc., in following cities: 870 Tennessee St., San Francisco 7, 427 West 5th St., Los Angeles 13, 5823 Henley Dr., San Diego, 120 South 29th St., Phoenix, 2318 N. W. Vaughn St., Portland, 803 W. Jackson St., Medford, 306 Dexter Ave., Seattle 9, 121 S. Monroe St., Spokane, and 110 East 6th St., Tucson.

PENNSYLVANIA TRANSFORMER DIVISION, McGraw-Edison Co., P. O. Box 330, Cannonsburg, Pa.—Carlson Sales, Inc., 1201 Dexter Ave., Seattle, and 935 Northwest 12th Ave., Portland; John G. Corrin, 510 West 6th, Los Angeles; Roy E. Coulson, P. O. Box 9215, Phoenix; George E. Honn Co., 560 Third St., San Francisco; Peterson Co., 4949 Colorado Blvd., Denver 16; Clarence W. Silver Co., 550 West 7th St., Salt Lake City 1, and 3724 Catalpa Drive, Boise; Monitor Distributors, 604 Utah Ave., Butte, Mont.; Williamson Sales Co., 1308 Manzano, N. E., and 620 Rankin Road, N. E., Albuquerque.

PENN-UNION ELECTRIC CORP., 315 State St., Erie, Pa.—F. M. Nicholas Co., 72 Townsend St., San Francisco; Kenneth Anderson Co., 123 S. Myers St., Los Angeles, and 422 So. 7th Ave., Phoenix; Northwestern Agencies, 4130 First, Portland; John Elggren Co., 212 West 4th So., Salt Lake City; Jim Dawson Company, 661 Delaware, Denver; R. L. Brewer Co., Inc., 100 S. El Paso St., El Paso, Tex.

PERENY EQUIPMENT CO., 893 Chambers Road, Columbus, Ohio—Carl Herrmann Associates, P. O. Box 1179, Palo Alto, Calif.; 551 E. Walnut, Pasadena, Calif., 319-2A San Francisco St., Santa Fe, N. M., and 6518 48th Ave., Seattle 15.

PERFECLITE CO., 1457 E. 40th St., Cleveland, Ohio—Jos. Pellicano & Assoc., 1226 S.W. Hume St., Portland, and 3020 East 92nd St., Seattle; Fred D. Benz Co., 520 - 4th St., San Francisco; Graybar Electric, Wesco, Gesco & Electric Corp., all principal cities.

PERFECT-LINE MFG. CORP., Old Country Rd., Hicksville, N. Y.—Matzinger-Johnson, 1329 Willow St., Los Angeles 13; W. B. Imholt Co., 275 Brannan St., San Francisco; L. D. Hood, 87 S. Kalamath St., Denver; Fred W. Stokes, 11509 2nd Ave., N. W., Seattle 77.

PERFECTION MICA CO. (See Magnetic Shield Div.)

PERMACEL, U.S. No. 1, New Brunswick, N. J.—Branch Offices: 4827 East 49th St., Los Angeles 58; 489 Sixth St. San Francisco 3, and 825 Stacy St., Seattle 8; C. D. LaMoree, 2433 Birkdale, Los Angeles, and 2221 Fourth St., Berkeley, Calif.

PERMUTIT CO., 50 West 44th St., New York City 36—Oliver B. Lyman Co., 55 New Montgomery St., San Francisco; Bumstead and Woolford, Fourth Ave. Bldg., Seattle, 421 S. W. 6th Ave., Portland 4, and 207 W. Hastings St., Vancouver, B. C. Branch Office: 302-B S. Brand St., Glendale, Calif., and 1485 Holland St., Denver.

PETERSEN ENGINEERING CO., INC., 460 Kifer Road, Santa Clara, Calif.—Arizona Cedar Rapids Co., 1802 W. Jackson St., Phoenix, Ariz.; J. H. Holan Co., Inc., 3605 W. Clarendon St., Phoenix, Ariz.; Road Machinery Co., 716 So. 7th St., Phoenix, Ariz.; Northern Commercial Co., 3rd and Barnett Sts., Fairbanks, Alaska; Edward R. Bacon Co., Folsom and 17th St., San Francisco, Calif.; Barber-Greene Co., 320 Victory Ave., South San Francisco, Calif.; Calavar Corp., 13750 E. Firestone, Santa Fe Springs, Calif.; Calweld, Inc., 7222 E. Slauson Ave., Los Angeles 22, Calif.; A. B. Chance Co., 1511 Adrian Rd., Burlingame, Calif.; Coast Equipment Co., 444 8th St., San Francisco, Calif.; James H. Dunn Co., 2556 Lafayette St., Santa Clara, Calif.; T. A. Ford Co., Inc., 402 Agostino Road, San Gabriel, Calif.; Fornaciari Co., 5350 E. Washington, Los Angeles, Calif.; Howard & Co., 938 N. Linden Ave., South San Francisco, Calif.; H. E. Linney Co., 5801 College Ave., Oakland, Calif.; McCabe Power Body Co., 625 Cedar St., Berkeley, Calif., and 1461 E. Washington Blvd., Los Angeles, Calif.; Utility Body Co., 1530 Wood St., Oakland 7, Calif.; Macdonald Equipment Co., 5300 Colorado Blvd., Denver 16, Colo.; Timpte Bros. Inc., 40th and York, Denver, Colo.; Truck Equipment Co., 3963 Walnut St., Denver 5, Colo.; Utility Truck Equipment Corp., 1950 - 31st St., Denver, Colo.; Powers Pacific Ltd., 635 South St., Honolulu, Hawaii; Engineering Sales Service Inc., 410 S. Capitol Blvd., Boise, Idaho; Williamson Body and Equipment Co., Corner Pole Line and Maple, Pocatello, Idaho; Montana Powder & Equipment Co., 12 E. Lawrence, Helena, Mont.; Western Construction Equipment Co., 505 North 24th St., Billings, Mont.; Mailman Truck Equipment, 1407 S. Western Ave., Las Vegas, Nev.; McCabe Power Body Co., 5525 East 28th Ave., Portland, Ore.; W. H. Pingree Co., P. O. Box FG-132, 1035 South 7th West St., Salt Lake City, Utah; Williamsens Inc., 1925 W. Indiana St., Salt Lake City 10, Utah; American Machine Co., West 1026 Broadway, Spokane, Wash.; Paul K. Haggard Co., 5800 E. Marginal Way, Seattle, Wash., and 4431 N. Seventh St., Tacoma, Wash.; Joslyn Pacific Co., 2424 First Ave., So., Seattle 4, Wash.; Northern Commercial Co., 4233 W. Marginal Way, Seattle 6, Wash.; Robblee Utilities Equipment Co., 3423 Fourth Ave., So., Seattle, Wash.; Truck Welding & Equipment Co., 739 Ninth Ave. N. at Westlake, Seattle 9, Wash.; Century White Truck Co. Inc., P. O. Box 419, Casper, Wyo. (See ad, p. 58)

PFAFF & KENDALL, 84 Foundry St., Newark, N. J.—Forest E. Pope, Western Sales Manager, 5016 Doyle Rd., San Jose 29, Calif.; Wrathall & Krusi, Inc., 681 Market St., San Francisco; C. A. Peterson Co., 5757 Huntington Dr. North, Los Angeles; Henry George Lehi, 14280 S. W. Uplands Dr., Oswego, Ore.; Wm. Benndorf Co., 221 E. Camelback Road, Phoenix; John C. Henberger Co., 4434 Ingraham St., San Diego; Matt Cabot & Associates, P. O. Box 3708, Honolulu, Hawaii. (See ad, p. 98)

PHALO PLASTICS CORP., 530 Boston Turnpike, Shrewsbury, Mass.—Lebell Warren Associates, 1485 Bayshore Blvd., San Francisco; Shefler-Kahn Co., P. O. Box 1587, Phoenix; Bob Bray, 18 N. Mentor Ave., Pasadena, Calif.; Dale Weber Co., 8 S. E. Clay St., Portland; Applied Engineering, 405 Felt Bldg., Salt Lake City.

PHELPS DODGE COPPER PRODUCTS CORP., 300 Park Ave., New York City 22, N. Y.—Branch Offices; W. M. McKenney, Manager, 6100 Garfield Ave., Los Angeles 22; Homer L. Hussey, Mgr., 625 Market St., San Francisco; George A. O'Brien, Mgr., 505 Skinner Bldg., Seattle 1; R. A. Baylee, Mgr., 1436 N.W. 16th Ave., Portland 9; F. W Packard, 621 17th St., Denver. (See ads, pp. 34, 35)

PHILADELPHIA ELECTRICAL & MFG. CO., 1200-36 N. 31st St., Philadelphia, Pa.—Keeler, White Co., 615 7th St., San Francisco; 523 N. W. Everett St., Portland, and 1041 6th Ave. So., Seattle; Hayjax Co., 436 Colyton St., Los Angeles; L. M. Slusser, 318 Dooly Block, Salt Lake City; Hamilton Associates, 1236 Elati St., Denver; Barney Hartley Enterprises, P. O. Box 4381, Phoenix.

PHILADELPHIA INSULATED WIRE CO., Morristown, N. J.—R. S. Hughes Co., 4515 Alger St., Los Angeles, 564 College Ave., Palo Alto, 1107 Bailey St., Seattle, and 2811 West 9th Ave., Denver.

PHILCO CORPORATION, C and Tioga Sts., Philadelphia 34, Pa.—Regional Offices: Paul E. Burks, West Area Sales Mgr., 908 Russ Bldg., San Francisco; 1435 S. La Cienega Blvd., Los Angeles 35; 1422 N. Hancock St., Colorado Springs, Colo.; 3875 Fabian Way, Palo Alto, Calif.

PHILLIPS CONTROLS CORP., 59-T W. Washington St., Joliet, Ill.—Long & Associates, 505 Middlefield Rd., Redwood City, Calif.

PHILLIPS DRILL CO., US 12 and Liberty Trail, Michigan City, Ind.—Branch Offices: 432 Colyton St., Los Angeles; 1828 E. 14th St., San Francisco. Representative: K. L. Tamiesie & Co., 1825 S.W. 6th Ave., Portland 1; Hawaii Sales Associates, 1540-A, Makaloa St., Honolulu.

PHOENIX PRODUCTS CO., 4715 N. 27th St., Milwaukee 9—Connell Motor Truck Co., 20 N. Wilson Way, Stockton; Calif. Elec. Supply, Folsom & 12th, San Francisco; Phillips & Edwards, 265 Vermont

St., San Francisco; Clyde Equipment Co., 1631 N.W. Thurman St., Portland 9; General Electric Supply Co., Boise, Ida.

PHOTOMATION, INC., 96 S. Washington Ave., Bergenfield, N. J.—Stillson Assoc., 33 Meadowpart Ct., Orinda, Calif.; Sight and Sound, 4325 S. W. 96th Ave., Beaverton, Ore.; Crown Berkley Eng. Inc., 2439 Riverside Dr., Los Angeles 39; John Williams Co., 766 Dexter Horton Bldg., Seattle 4.

PHOTOSWITCH, Div. Electronics Corp. of America, 77 Broadway, Cambridge, Mass.—Branch Offices: 1485 Bayshore Blvd., San Francisco. Agents: Eicher & Co., Inc., 5 West Harrison St., Seattle; Hundley Co., 3282 Fletcher St., Los Angeles; Technical Service Co. Inc., 2430 E. Washington St., Phoenix; Phillips Edwards Elec. Corp., 265 Vermont St., San Francisco; Electric Equipment Co., Inc., 50 East Wasatch Ave., Salt Lake City.

PHOTOVOLT CORP., 95 Madison Ave., New York City 16—Braun Corp., 1363 So. Bonnie Beach Pl., Los Angeles; Braun-Knecht-Heimann Corp., 1400 16th St., San Francisco; Scientific Supplies Co., 600 Spokane St., Seattle.

PIC AUTOMATION CONTROLS DIV., General Controls Co., 8080 McCormick Blvd., Skokie, Ill.—Branch Offices: 801 Allen, Glendale 1, Calif.; 600 Bryant St., San Francisco; 2862 S. State, Salt Lake City, 1162 Elati St., Denver; 124 E. Roosevelt, Phoenix. Agents: C. B. Parsons, 3078 First Ave., Seattle; E. W. Bliss Co., 13280 E. Temple, City of Industries, Calif.; Gough Industries, 819 E. First St., Los Angeles; R. V. Weatherford, 6921 San Fernando Rd., Glendale; Phillips & Edwards Elec. Corp., 265 Vermont St., San Francisco.

PIEPER-LILLARD, INC., 1525 Woodson Road, St. Louis 22, Mo.—Bill Horning Sales, 902 Friedel Ave., Vancouver, Wash.; Donald Ingalls, 1485 Bayshore Blvd., San Francisco; R. F. Schow Co., 926 S. Atlantic Blvd., Los Angeles 22; W. C. Osborn, 7116 No. 13th St., Phoenix; Ralph B. Black, 1025 Hermosa Dr., S. E., Albuquerque; Sales Engineers, 211 Wazee Market, Denver 4; James D. Stephens, 49 N. Second, West, Salt Lake City.

PIERCE RENEWABLE FUSES, INC., Route 20-A, Leicester, N. Y.—The McLoughlin Co., 811 East 14th Place, Los Angeles; H. M. Denny Co., 111 W. Harrison St., Seattle; Jim Dawson Co., 661 Delaware St., Denver.

PINCO DIV., JOSLYN MFG. & SUPPLY, Lima, N. Y. —Joslyn Pacific Co., 5100 District Blvd., Los Angeles. Sales Offices in San Francisco, Seattle, Portland, Salt Lake City and Phoenix.

PIONEER GEN-E-MOTOR CORP., 5841 W. Dickens Ave., Chicago, Ill.—Fremont Elec. Co., 744 No. 34th St., Seattle; The Valley Dist. Co., 2525 Van Buren, Phoenix; Bargain Mart, 2538 N. Country Club, Tucson; C. H. Sales Co., 2156 E. Colorado, Pasadena, Calif.; Herb's Surplus, 620 Main St., Stockton, Calif.; Miller's Surplus, 108 S. Euclid, Ontario, Calif.

PIPE COUPLINGS MFGRS., INC., P. O. Box 488, Martins Ferry, Ohio—Northwestern Agencies, Inc., 4130 First Ave. South, Seattle 4, and 2941 N. W. Quimby, Portland; Hodges & Glomb, Inc., 921 Bryant St., San Francisco 3; L. D. Hood Sales Agency, 87 S. Kalamath St., Denver 23; McLoughlin Co. Inc., 811 East 14th Place, Los Angeles 21.

PIPE LININGS, DIVISION OF AMERICAN PIPE AND CONSTRUCTION CO., 2414 E. 223rd St., Wilmington, Calif.

PITTSBURGH COIL CO., Box 700, Carnegie, Pa.—Wm. Belfer, 926 Howard St., San Francisco; Perlmuth-Electronics Associates, 2419 So. Grand Ave., Los Angeles 7.

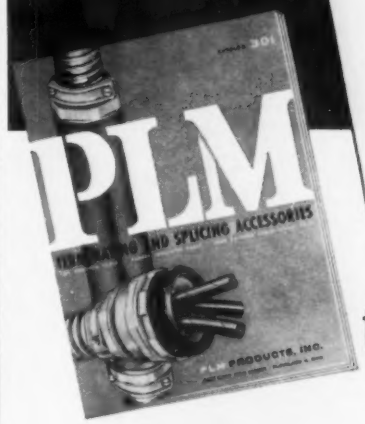
PITTSBURGH REFLECTOR CO., Oliver Bldg., Pittsburgh, Pa.—L. D. Morgan, 253 Securities Bldg., Seattle 1; Leonard Slusser, 318 Dooly Bldg., Salt Lake City 1; Harry Linch Co., 1690 Detroit St., Denver 6; L. V. Walker Co., 542 Thornton Ave., San Francisco; S. E. Gardner, 459 Ocampo Dr., Pacific Palisades, Calif.; H. J. Fender, 1620 East Earll Dr., Phoenix.

PITTSBURGH STANDARD CONDUIT CO., Verona, Pa.—Allied Industries, 412 Seaton St., Los Angeles 13; Bruce-Emmett Co., 1016 First Ave. So., Seattle 4, 830 S. E. Alder St., Portland, and 12103 E. Boone St., Spokane; Gaer Sales, 1625 West 12th Ave., Denver 4.

PLASTIC AGE CO., 14300 Davenport Road, Mint Canyon, Calif.

PLASTIC WIRE & CABLE CORP., East Main St., Jewett City, Conn.—Bruce-Emmett Co. in following cities: 830 S. E. Alder St., Portland 9; 1016 First Ave. South, Seattle 4, 410 Wall St., Salt Lake City, and 12103 E. Boone St., Spokane; F. M. Nicholas Co., 72 Townsend St., San Francisco; Kenneth Anderson Co., 123 S. Myers St., Los Angeles 13, 422 So. 7th Ave., Phoenix, 3525 Fifth Ave., San Diego, Calif., and 801 N. Bush St., Santa Ana, Calif.

PLASTIMAYD CORP., 2204 S. E. 7th Ave., Portland.



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POLE SPRAYERS, INC., 980 Ellicott St., Buffalo, N. Y. — Dan Kamphausen, Continental Oil Bldg., Denver.

POLIS MFG. CO., J. D., 2900-20 W. 26th St., Chicago, Ill.—M. D. Johnston Co., 464 East 4th St., Los Angeles, and 678 Howard St., San Francisco; Collins-Gillett, 2501 Crestmont Pl., Seattle 99; C. F. L. Co., 1871 S. Broadway, Denver.

POLLAK LUMINESCENT CORP., 1105 W. Lawrence Ave., Chicago 5, Ill.—Bruce-Emmett Co., 830 S. E. Alder St., Portland 14, and 1016 First Ave. South, Seattle 4.

POLYKEN SALES DIV., KENDALL CO., 309 W. Jackson Blvd., Chicago, Ill.—Phillips & Edwards Elec. Corp., San Francisco, Santa Rosa, Oakland, Stockton, Redwood City; Incandescent Supply Co., 647 Mission St., San Francisco, and all branches; Warwest Corrosion Control Corp., 2421 Market St., Seattle; Pacific Water Works Supply, 2900 First Ave., South, Seattle; Barnes & Delaney, 2600 Atlantic, Long Beach, Calif.; Patterson Supply, 4201 Jackson, Denver.

POLYMER CORP. OF PENNA., 2120 Fairmont Ave., Reading, Pa.—E. Jordan Brookes Co., 6601 Telegraph Rd., Los Angeles, 3564 30th St., San Diego, 571 Howard St., San Francisco; Plasticrafts, Inc., 2800 N. Speer Blvd., Denver, and 3710 Edith Blvd., N.E., Albuquerque; Allied Agencies, Inc., 650 Adams St., Seattle 3; Universal Plastics Co., 1105 Westlake Ave. N., Seattle 9, and 1222 N. E. Alberta St., Portland.

POLYTECHNIC RESEARCH & DEV. CO. INC., 212 Tillary St., Brooklyn, N. Y.—Branch: 2639 S. La Cienega St., Los Angeles.

POPE & TALBOT, INC., P. O. Box 186, St. Helens, Ore.

PORCELAIN INSULATOR CORP., 761 Main St., Lima, N. Y.—Now Joslyn Mfg. & Supply Co. Pinco Div.

PORCELAIN PRODUCTS CO., North Patterson, Carey, Ohio—Allied Industries, 412 Seaton St., Los Angeles; George A. Gray Co., 2720 17th St., San Francisco; Smith & Thomas Co., 5417 East Marginal Way, Seattle; Kenneth B. Schumann Co., 1073 Galapago St., Denver.

PORTA HOUSE, 6767 Broadway Terrace, Oakland, Calif.—8833 S. Alameda St., Los Angeles 2; Blystone Equipment Co., 2649 West 1st St., Santa Ana; Construction Supply Co., 8801 S. Alameda St., Los Angeles 2.

PORTABLE ELECTRIC TOOLS, INC., 1200 East State St., Geneva, Ill.—Cohn & Shane, Inc., 1323 Venice Blvd., Los Angeles; Ralph L. Millie, P. O. Box 4718, Park Hill Sta., Denver; William J. McGee Co., 502-C Maritime Bldg., Seattle; Alaska Brokerage Co., P. O. Box 2187, Anchorage, Alaska.

PORTABLE LIGHT CO. INC., 65 Passaic Ave., Kearny, N. J.—Sold direct to utility companies and municipalities.

PORTER CABLE MACHINE CO., 700 Marcellus St., Syracuse, N. Y.—Branch Office: 1101 20th St., San Francisco 7 Calif.; 2400 S. Grand Ave., Los Angeles 7; 233 West Lake North, Seattle.

PORTER, H. K., COMPANY, INC., Porter Bldg., Pittsburgh 19, Pa. (See Delta-Star Electric Division, National Electric Division, Peerless Electric Division below)

Delta-Star Electric Division, Delta-Star Works, 2437 W. Fulton St., Chicago, Ill.; Electric Service Works, 17th and Cambria Sts., Philadelphia 32, Pa.; Thomas Works, E. Washington St., Lisbon, Ohio; Hill Transformer Works, 1030 Washington St., San Carlos, Calif. Branch Offices and Agents: Albuquerque, N. M., 1025 Hermosa Dr., S. E., Ralph B. Black, Mgr.; Denver 2, Colo., W. E. Young Electric Co., 2134 Curtis St., James T. Wall, Mgr.; Los Angeles 13, Calif., 542 S. Broadway, G. A. Palka, Mgr.; Phoenix, Ariz., Daley Electric Sales Co., Inc., 1825 E. Jefferson St., J. R. Horton, Mgr.; Salt Lake City 10, Utah, Stevens Sales Co., 1476 Major St., P. O. Box 2328, Jack Lowder, Mgr.; San Francisco 5, Calif., 681 Market St., L. R. Fontaine, Mgr.; Seattle 1, Wash., 1904 Third Ave., R. E. Willis, Mgr.

National Electric Division, Porter Bldg., 601 Grant St., Pittsburgh 19, Pa.—Ambridge Works, 14th and Duss St., Ambridge, Pa.; Elizabeth Works, P. O. Box 511, Elizabeth, N. J. Sales Representatives in following cities: 6400 Corvette St., Los Angeles 22, Calif.; 400 Potrero Ave., San Francisco 10, Calif.; 455 W. Wesley Ave., Denver 23, Colo.; 19 W. South Temple, Salt Lake City, Utah; 3330 E. Georgia St., Phoenix, Ariz.; 1048 Sixth Ave., S., Seattle 4, Wash.

Peerless Electric Division, 1401 W. Market St., Warren, Ohio—Norman S. Wright & Co. in following cities: 1361 Abby St., Fresno 3; 625 N. Alvarado St., Los Angeles 26; 1102 T St., Sacramento 14; 1015 Folsom St., San Francisco 3; 3668 Albion Place, Seattle 9; 3607 S. W. Corbett St., Portland 1; So. 125 Stevens, Spokane 4; 2641 E. Adams St., Phoenix; McCombs Supply Co., 1819 Wazee St., Denver 17; Thermal Engineering Co., 1492 Major, Salt Lake City; W. M. Caroll, 111 Marble Ave., N. W., Albuquerque, N. M.; Richardson Equipment Co., 612 Front St., Boise, Ida.

POST-GLOVER ELECTRIC CO., Box 709, Covington, Ky.—K. M. Ryals Co., 9 First St., San Francisco 5; John Hyatt Co., P. O. Box 22105, Los Angeles 22, Calif.

POTTER & BRUMFIELD, INC., Princeton, Indiana—C. E. Ault Associates, 906 Willow Rd., Menlo Park, Calif.; Fred H. Haight, 3212 Eastlake Ave., Seattle 2, and Portland, Ore.; G. S. Marshall Co., 2065 Huntington Dr., San Marino; 3525 Fifth Ave., San Diego, Pima Plaza No. 8, 2030 E. Broadway, Tucson; R. G. Bowen Co., 721 S. Broadway, Denver; 5175 S. 4660 West, Kearns 18, Utah; 2228-A San Mateo Blvd., N.E., Albuquerque.

POTTER INSTRUMENT CO. INC., Sunnyside Blvd., Plainview, N. Y.—H. W. Ruby & Assoc., P. O. Box 63, LaCanada, Calif.; N. R. Schultz Co., 4227 Airport Way, Seattle; Kelley Enterprises, 336 East 4th St., Loveland, Colo.

POWDER POWER TOOL CORP., 1919 S. E. 31st Ave., Portland.

POWERCRAFT CORP., 2215 DeKalb, St. Louis, Mo —Page E. Golsen, 1421 S. Flower, Los Angeles 15; L. W. Daniison, 309 S.W. 3rd, Portland 4.

POWERDYNE, INC., 17150 S. W. Boones-Ferry Rd., Oswego, Ore.—H. G. Lehl, 14280 S. W. Uplands Dr., Oswego, Ore.; Wrathall-Krusi, Inc., 681 Market St., San Francisco; Matzinger-Johnson Co., 1329 Willow St., Los Angeles; Associated Engineers, 614½ Fitzgerald, N. W., Albuquerque.

POWER-STRUT DIV., VAN HUFFEL PRODUCTS, INC., Warren, Ohio—Squires Associates, 370 Fourth St., San Francisco; The Barker Co., 421 Santa Fe Dr., Denver; Construction Materials Co., P. O. Box 198, Butte, Mont.; Vernon B. Cobb Co., 2516 Minor Ave. No., Seattle 2; W. E. Kirk Co., 415 Wall St., Los Angeles 13.

PRAT-DANIEL—(See Aero-tec)

PRECISION MULTIPLE CONTROLS, INC., 233 Chestnut St., Ridgewood, N. J.—Wrathall & Krusi, Inc., 681 Market St., San Francisco; William Horning, 905 Freidel Ave., Vancouver, Wash.; Industrial Engineering & Equip. Corp., 2975 Wilshire Blvd., Los Angeles; L. M. Slusser, 318 Dooly Block, Salt Lake City; Jim Dawson Co., 661 Delaware St., Denver; Matt Cabot Associates, P. O. Box 3708, Honolulu 11. (See ad, 2nd cover)

PRECISION THERMOMETER & INSTRUMENT CO., 1434 Brandywine St., Philadelphia 30, Pa.—Denver Fire Clay Co., 3033 Blake St., Denver; Martig's Inc., 5741 N. E. Glisan St., Portland 13; Delta Instrument Co., 1812 Montana St., El Paso, Tex.; Paul W. Beggs & Son, 314 Seventh St., San Francisco; Gene D. Pribble Co., 3106 W. Beverly Blvd., Montebello, Calif.

PRECISION TRANSFORMER CO., 2218 W. Lake St., Chicago, Ill.—Garnett-Young & Co., 590 Fourth St., San Francisco, 1928 First Ave. S. Seattle, 1238 N. W. Glisan St., Portland, 345 E. Pasadena Phoenix, 3775 Broadway So., Los Angeles; and Young Electric & Mfg. Co., 2134 Curtis St., Denver.

PRE-FAB HEATER DIV. (See Flexible Molded Heater)

PREFORMED LINE PRODUCTS CO., 5439 St. Clair St., Cleveland 14, Ohio—Branch: 600 Hansen Way, Palo Alto, Calif. Representatives: Earl S. Condon Co., 3450 Wilshire Blvd., Los Angeles 5; K. M. Ryals Co., 9 First St., San Francisco 5; Shaffer and Nelson, Inc., in following cities: 1001 S. E. Water Ave., Portland 14, 1415 S. Main St., Salt Lake City 15, 312 Occidental Ave., Seattle 4, and 1835 Broadway, Spokane 10; Peterson Co., 4949 Colorado Blvd., Denver 16; Honolulu Elec. Products Co., Ltd., 630 Piikoi St., Honolulu, Hawaii; John P. Bagoy & Associates, 611 11th Ave., Anchorage, Alaska. (See ads, pp. 65, 66, 67, 68, 69, 70)

PREMAX PRODUCTS, Div. Chisholm-Ryder Co., Inc., Highland & College Ave., Niagara Falls, N. Y. —Best Linemen's Supply Corp., 541 1st Ave. So., Seattle; Gordon G. Moss, Box 428, Greeley, Colo.; Linemen's Supply Corp. of Calif., 2704 S. Hill St., Los Angeles; Linemen's Supply Co. of Calif., P. O. Box 1360, San Francisco, Calif., and 2704 S. Hill St., Los Angeles.

PRESCOLITE MFG. CORP., 2229 4th St., Berkeley, Calif.—Branch: 908 E. Third St., Los Angeles; A. L. Perdue, 4305 Ravenwood Ave., Sacramento; John Allen Ware & Associates, 301 West G St., San Diego, and Phoenix; Gleason's, 4710 University Way, Seattle; J. R. Christensen, 247 E. 5th So., Salt Lake City; Don Congdon, 1530 Dover, Lakewood, Colo.

PRESTIGE LIGHTING CO., 307 Main St., Seattle, Wash.—Guy deLeuze Co., 1923 Bryant St., San Francisco.

PREST-O-LITE BATTERY CO., Division of Electric Auto-Lite Co., P. O. Box 6126 Elmhurst Sta., Oakland 3, Calif.

PRINGLE ELECTRICAL MFG. CO., 1900 N. 6th St., Philadelphia, Pa. — Oliver B. Lyman, 55 New Montgomery St., San Francisco 5; Calhoun & Poxon Co., 5429 Alhambra Ave., Los Angeles 32; Colorado Western Sales, P. O. Box 4133, So. Denver Sta., Denver 9; J. C. McDougall Co., 520 First Ave. S., Seattle 4.

PRITCHARD, J. F., & COMPANY, 4625 Roanoke Parkway, Kansas City, Mo.—R. R. Derber Co., P. O. Box 266, South Gate, Calif.; Cone & Wallace Co., 1325 S. 26th St., Phoenix; F. K. Donnelly Co., 401 E. 92nd St., Seattle 15; E. N. Murray Co., 240 Denver Club Bldg., Denver; Brod & McClung, 9800 S.E. McBrod Ave., Portland; The Fulcher Co., 24 California St., San Francisco; Boyd Engineering Co. Inc., P. O. Box 598, Albuquerque; Smith Machinery Co. Inc., P. O. Box 2457, Salt Lake City; Hawaiian Equip. Co. Inc., P. O. Box 2990, Honolulu 2.

PRODELIN, INC., 307 Bergen Ave., Kearney, N. J.—Maydwell & Hartzell, Inc., 870 Tennessee St., San Francisco 3; 427 W. Fifth St., Los Angeles 13; 2318 N. W. Vaughn, Portland, 306 Dexter Ave., Seattle 4; 121 S. Monroe St., Spokane; 324 S. 2nd Ave., Phoenix; 5823 Henley Dr., San Diego; 803 W. Jackson St., Medford, and 110 E. 6th St., Tucson.

PRODUCTION INSTRUMENT CO.—See Pic Automation Controls

PRODUCTO ELECTRIC CO., 932 Rogers Place, New York City 59—Suchman Associates, 837 East 4th Place, Los Angeles 13.

PROJECT FIXTURE MFG. CORP., 55 Ongley St., Rockville Center, N. Y.—Guy deLeuze Co., 1923 Bryant St., San Francisco; Bach Associates, 191 Oneida St., Denver.

PROTECTOWIRE CO., Washington St., Hanover, Mass.—Branch Offices: Protectowire Pacific Co., Hampton Bldg., Longview, Wash.; 581 Monument Blvd., Concord Calif.

PRUDENTIAL FLUORESCENT MFG. CORP., 1000 Towne Ave., Los Angeles 21, Calif.—The Baxter Co., 101 Kansas St., San Francisco.

PRYNE & CO., INC., 206 N. Towne Ave., Pomona, Calif. (See Emerson-Pryne)

PULLMAN VACUUM CLEANER CORP., 25 Buick St., Boston 15, Mass.—Wilwite Associates, 291 Fourth St., Oakland, Calif., and 1320 Santa Fe Ave., Los Angeles.

PURE CARBON CO., 445 Hall Ave., St. Marys, Pa. —C. B. Gratiot, 1282 Folsom St., San Francisco, and R. F. Gratiot, 1261 S. Glendale Ave., Glendale 5, Calif.; C. M. Coffinberry, 2377 Galbreth Rd., Pasadena, Calif.; Northwest Sales, San Francisco, Calif., and Seattle, Wash.

PURITRON CORP., 15 Stiles St., New Haven, Conn.—Bryant & Hebert, 1355 Market St., San Francisco; Halperin Co., 8271 Melrose Ave., Los Angeles.

PYLE NATIONAL CO., 1334 N. Kostner Ave., Chicago 51, Ill.—Branch Offices: 242 S. Anderson St., Los Angeles, 1138 Poplar Place, Seattle 44, 5711 E. Vernon Ave., Long Beach 15, and 1417 Market St., San Francisco. Rep.: Robert Emich, 801 West 5th Ave., Denver; Ralph Black, 1025 Hermosa Dr. S. E., Albuquerque.

PYRAMID ELECTRIC CO., Darlington, South Carolina —Jack Berman Co., 1141 S. La Cienega Blvd., Los Angeles, Calif.; F. W. Moulthrop Co., 575 Tenth St., San Francisco; Burt C. Porter, 1209 Poplar Place, Seattle.

PYRAMID INSTRUMENT CORP., 630 Merrick Rd., Lynbrook, N. Y.—Maddox Sales Co., 914 S. 3rd St., Los Angeles; Baxter Co., 101 Kansas St., San Francisco; Northwestern Agencies, 4130 First Ave. South, Seattle; R. D. Florance, 2052 Humboldt St., Denver;: Darger Co., 211 S. 2nd West, Salt Lake City.

PYRENE C-O-TWO Div. of Fyr-Fyter Co., U. S. Highway 1, Newark, N. J.—Branch in Los Angeles, 1538 Esperanza St. Distributed by Ets-Hokin-Galvin, San Francisco.

PYROMETER INSTRUMENT CO., INC., 92 Portland Ave., Bergenfield, N. J.—Branom & Leeland Instrument Co., 2137 Second Ave., Seattle, and 6019 N. E. Union Ave., Portland; L. H. Freeman Co., 4063 Radford Ave., Studio City (Los Angeles), Calif.; Claud B. Smith Co., 844 East 12th, Oakland.

QUADRANGLE MFG. CO., 32 So. Peoria St., Chicago 7, Ill.—Keeler, White Co., 615 7th St., San Francisco 3; A. Allen Smith Co., 1513 Mateo St., Los Angeles; Wm. O. Proby & Assoc., Inc., 2915 13th Ave., S.W., Seattle 4; Al Thompson, 4781 S. Meade St., Littleton, Colo.; John Allen Ware & Assoc., 721 W. Buchanan St., Phoenix; McGillan Sales Co., 1100 Hermosa Dr., S.E., Albuquerque.

QUEEN MFG. CO., 502 Minnesota St., San Francisco —Hornstein Bros., P. O. Box 3170, San Francisco.

QUICFREZ INC., Fond du Lac, Wis.—Hornstein Bros., P. O. Box 3170, San Francisco.

R & I E EQUIPMENT DIV., now Greensburg Div. of I-T-E Circuit Breaker Co., Greensburg, Pa.—District Offices: 655 Broadway Bldg., Denver 3, 1921 East 7th St., Los Angeles 22, and 2727 N. Central, Phoenix. Sales Agents: Garland Affolter Eng. Corp., 1233 N. E. 12th St., Portland 9, and 2603 Western Ave., Seattle 1; R. L. Brewer Co., Inc., 100 S. El Paso St., El Paso; R. E. McDonough Co., 829 Maryland Ave., Butte, Mont.; Riter Engineering Co., 136 S. Main St., Salt Lake City 1.

R T & E CORP., 1900 E. North St., Waukesha, Wis. —Branch Plant: 12600 S. W. Hwy. 217, P. O. Box 6387, Portland 23; H. L. Mooney, 2675 Hillcrest, Medford, Ore.; Walter Lassen, 703 Custer, Billings, Mont.; N. R. Beebe, 2200 Booksin, San Jose, Calif.; D. B. Cole, 1215 Flintridge, Pasadena, Calif.; T. R. Van Wagoner, 1415 S. Main St., Salt Lake City; K. H. DuBois, 16619 S.E. 12th, Bellevue, Wash.; R. E. McLain, 8755 S. W. Rambler Lane, Portland; J. P. Bagoy, 2218 Post Road, Anchorage, Alaska.

RAB ELECTRIC MFG. CO., 605 E. 132nd St., New York City—Ed B. Schack, 2216 First Ave., Seattle; Hayjax Co., 436 Colyton St., Los Angeles 13; Bach Associates, 191 Oneida St., Denver.

RACON ELECTRIC CO., INC., 1261 Broadway, New York City 1—Wm. H. and Don C. Wallace, 1206 Maple Ave., Los Angeles 15.

RADCOR, INC., Bradner, Ohio—Montgomery Brothers, Inc., in following cities: 1122 Howard St., San Francisco; 4800 District Blvd., Los Angeles; 1632 N. W. Johnson, Portland; 911 Western, Seattle; 5103 N. Hawthorne, Spokane; 1331 T St., Sacramento, Calif.

RADEX CORP., 2076 Elston Ave., Chicago 14, Ill.—Sanford Mechanical Equip. Co., 5658 College Ave., Oakland.

RADIANT LAMP CORP., 300 Jeliff Ave., Newark N. J.—Branch Office: 120 S. Hewitt St., Los Angeles; 721 Bryant St., San Francisco; 1603 N.W. Johnson St., Portland; Wm. Ballew, 700 N. Bush, Anaheim, Calif. Sold by leading electrical wholesalers, all principal cities.

RADIO CORPORATION OF AMERICA, Camden, N. J. —For Mobile and Microwave Equipment: Branch Office: 1560 N. Vine St., Hollywood 28, Calif.; 420 Taylor St., San Francisco; 2250 First Ave. So., Seattle.

RADIO CRAFTSMEN, INC., 4223 W. Jefferson Blvd., Los Angeles, Calif.—Lee J. Goodman & Associates, 1623 So. LaCienega, Los Angeles; Conklin-Tamberg, 1355 Market St., San Francisco; Nystrom Bros., 2426 4th Ave., San Diego; Arizona Wholesale Supply, 1333 N. 21st Ave., Phoenix.

RADIO FREQUENCY LABORATORIES, INC., Test & Service Products Div., Powerville Road, Boonton, N. J.—Instruments for Measurements, 3455 Cahuenga Blvd., Hollywood 28; Hawthorne Electronics, 101 Administration Bldg., Boeing Field, Seattle 8; Williams & Associates, Inc., 2261 S. Albion St., Denver; Roersh Laundry, 1063 Howard, San Francisco.

RADIX WIRE CO., 26260 Lakeland Blvd., Cleveland, Ohio—Brill Electric Sales, 123 Kansas St., San Francisco 3; Bruce-Emmett Co., 830 S. E. Alder St., Portland, 1016 First Ave., So., Seattle, and 12103 E. Boone St., Spokane; F. Alleman Co., 1625 Blake Ave., Los Angeles; Kobert & Co., 329 Winston St., Los Angeles.

RALCO MFG. CO., 123 N. Albany Ave., Chicago, Ill.—General Electric Supply Co., Graybar Electric Co. Inc., all principal cities; Industrial Electric Service Co., Roseburg, Ore., Arcata, Calif., and Aberdeen, Wash.; Mine & Smelter Supply Co., Salt Lake City; George E. Honn Co., 560 Third St., San Francisco.

RAMBUSCH DECORATING CO., 40 W. 13th St., New York 11, N. Y.—James H. Brundage and Jack Holzinger, 31 Geary St., San Francisco 8; Matt Cabot & Associates, P. O. Box 3708, Honolulu, Hawaii.

RAMCO ENG. & MFG. CO., 5413 N. E. Columbia Blvd., Portland 18, Ore.; Carl Edstrom, 100 Roy St., Seattle; Hill & Deitrick, P. O. Box 627, Oakland 4; Jack Rice, 500 Westlake No., Seattle; Victor J. Miller, 4122 S. E. 10th, Portland; Marvin Ramberg, 12300 Clover Ave., Los Angeles; J. Walter Nelson, 226½ Spalding Dr., Beverly Hills, Calif.

RAMO-WOOLDRIDGE CORP. (See Thompson Ramo-Wooldridge)

RAMSET FASTENING SYSTEM, Winchester-Western Div., Olin Mathieson Chem. Corp., 289 Winchester Ave., New Haven 4, Conn.—Robert H. Ernst, 3239 Grande Vista, San Bernardino, Calif.; Frank A. Mullen, 3 Josepha Ave., San Francisco 27; Thomas V. Williams, P. O. Box 564, Eugene, Ore.; C. D. Maclure, 1455 Dahlia St., Denver 20; Cascade Dist. Inc., 1918 First Ave. So., Seattle 4; Thunderbird Sales Corp., 2255 W. McDowell, Phoenix; Central Electric Supply Co., 500 Quivas St., Denver; Landes, Zachary & Peterson, 2137 Mills St., El Paso; Pell Co. Inc., 330 Cooke St., Honolulu.

RANCO, INC., 601 West 5th Ave., Columbus, Ohio —Franklin G. Slagel, 3520 Council St., Los Angeles.

RANSOME TORCH & BURNER CO., 4030 Hollis St., Emeryville, Calif.—Meeder Equip. Co., 1745 N. Eastern Ave., Los Angeles.

RAPIDAYTON DIVISION, Tait Mfg. Co., 500 N. Webster St., Dayton, Ohio—Edwin P. Cook, 1863 Wazee St., Denver 2; Rogers K. Butz, 555 E. Walnut St., Pasadena; Jud B. Babcock, 1545 Franklin Ave., Seattle 2.

RAPID ELECTRIC CO., 2881 Middletown Road, New York City—L. H. Butcher & Co., 3628 E. Olympic Blvd., Los Angeles, and 230 South 4th St., Salt Lake City; Alan Baker, 10 Bluxome St., San Francisco 7; Industrial Materials Co., 383 Brannan St., San Francisco; Peninsula Associates, 1345 Hancock St., Redwood City, Calif.

RATTAN MFG. CO., 10 Wall St., New Haven 7, Conn.—Michel Brothers, 1413 East 20th St., Los Angeles; Baxter Co., 101 Kansas St., San Francisco; Ed R. Schack, 2216 First Ave., Seattle; Abbott Sales Co., P. O. Box 13117, Phoenix.

RAWLPLUG CO., INC., 200 Petersville Rd., New Rochell, N. Y.—Branch Offices: 735 E. Washington Blvd., Los Angeles 21; 4201 Brighton Blvd., Denver; 70 Marion St., Seattle; 1525 S. Morrison St., Portland; 3941 Mason Ave., San Diego 10; 3060 N. 16th St., Phoenix; 3285 21st St., San Francisco 10; 2520 S. State St., Salt Lake City; P. O. Box 1633, Albuquerque.

K. M.

RYALS

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- Guy Grips
- Dead-Ends
- Line-Guards
- Splice Rods

Cole Electric Co.

- Outdoor & Indoor Power Switching Equipment; Missile and Aircraft Components

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D. S. MacCorkle, Inc.

- Underground Cable Fittings

Interstate Drop Forge Company

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The Post-Glover Electric Co.

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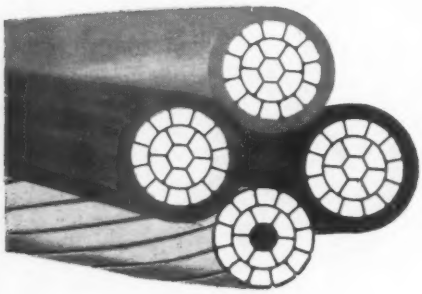
Triplex Secondaries by **SOUTHERN ELECTRICAL** Take on Lasting Color With **HYPALON**®*



COLOR-CODED CABLES Insulated With HYPALON® Have These Major Advantages:

- Positive phase identification, permitting load balancing;
- Available in black, electrical red and electrical grey;
- Outstanding resistance to ozone;
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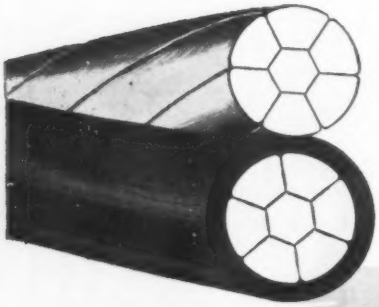
- Improved resistance to compression cutting when used on COMPRESTO®
- HYPALON® can be stripped freely at field temperatures;
- Electrical properties of HYPALON® permit its being rated as a 600-volt class multiplex cable.



*Synthetic rubber covering with properties that exceed Two-Coat coverings for service drop cables.

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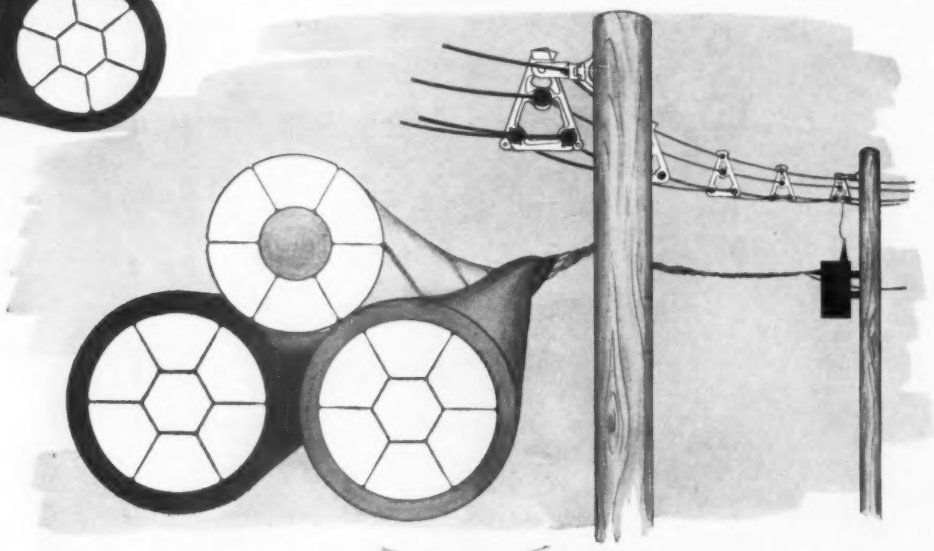

Southern Electrical Company

OLIN MATHIESON • METALS DIVISION • CHATTANOOGA, TENNESSEE

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(See page 72 for Sales Offices)

RAY FITTING & BOLT CO., 175 N. Vernon Ave., Pasadena, Calif.—Jim Shirreffs Co., 3601 S. Broadway Place, Los Angeles; Guy de Leuze Co., 1923 Bryant St., San Francisco; John Allen Ware, 301 W. "G" St., San Diego; John Allen Ware, Jr., P. O. Box 4216, Phoenix.

RAYLINE CO., 1015 Chautauqua Blvd., Pacific Palisades, Calif.

RAYLITE ELECTRIC CORP., 305-315 Rider Ave., Bronx 51, N. Y.—Brill Electric Sales, 123 Kansas St., San Francisco; Bruce-Emmett Co., 830 S. E. Alder St., Portland 14; Elkins Electric Agency, 235 S. Alameda St., Los Angeles; Southwestern Sales Co., 6218 W. Indianola, Glendale, Ariz.

THE RAYMOND CORP., 143 Madison St., Greene, N. Y.—W. T. Billard, Inc., 734 E. 3rd St., Los Angeles; Air-Mac, Inc., 3838 4th Ave., Seattle 4; 1111 S.E. Grand, Portland and 3713 Trent St., Spokane; Murray Sales Co., 16 Wazee, Denver; The Horsley Co., 2416 Grant Ave., Ogden, Utah; Rapiston of Calif., Inc., 444 Brannan St., San Francisco; Equipment Sales Co., 720 S. 19th Ave., Phoenix, Ariz.

RAY-O-VAC CO., 212 E. Washington Ave., Madison, Wis.—Branch Office: C. C. Chapman, Western Regional Mgr., 111 Sutter St., San Francisco; H. M. Buchan, 947 High St., Alameda, Calif.; D. H. Herbst, 5860 Nagel Ave., Van Nuys, Calif.; V. Benson, 7217 McCool Ave., Los Angeles; W. T. Whitten, 3645 Van Owen, North Highlands Calif.; G. C. Davis, 8502 Maplewood Lane, Edmonds, Wash.; R. R. Rose, 11010 N. E. Everett St., Portland 16.

RAYTHEON MFG. CO., 1415 Boston-Providence Highway, Norwood, Mass.—Branch Offices: 225 N. Van Ness Ave., Hawthorne, Calif.; 486 El Camino Real, Redwood City, Calif.

REA MAGNET WIRE CO., INC., 3610 E. Pontiac St., Fort Wayne, Ind.—Branch Office: 3136 East 11th St., Los Angeles 23.

READ STANDARD DIVISION, 901 South Richland, York, Pa.—Robert M. Langmack Co., 406 Paseo de la Playa, Redondo Beach, Calif.; W. R. Hendrey Co., Smith Tower, Seattle.

READY-POWER CO., 3828 Grand River & Avery St., Detroit, Mich.—Karl Moellendick, 7813 California Ave., Huntington Park, Calif. (Parts and Service); 3370 E. Florence, Huntington Park, Calif. R. W. Stephenson, Dist. Mgr.

REDMOND CO., INC., Owosso, Mich.—Branch: 139 Illinois St., El Segundo, Calif.

REES, INC., MACKWORTH G., 1573 E. Forest, Detroit, Mich.—MacKellar Electric Company, D. Douglas MacKellar, 4617 E. Cecelia St., Bell, Calif.

REFRACTORIES DIV., The Carborundum Co. Latrobe, Pa.—Eichorn & Melchior, 932 Terminal Way, San Carlos, Calif.; Lloyd E. West Co., 262 S. Los Robles Ave., Pasadena 1; L. F. Davies, 2626 Malt Ave., Los Angeles 22.

REGAL-LITE CORP., 16 Blackstone St., Providence, R. I.—Carl Lertzman, 962 Vine St., Hollywood, Calif.; John Roth, 5500 East 33rd, Denver.

REGAL MFG. CO., 84 Fulton Ave., Pasadena, Calif.—Agencies Co., 836 Traction Ave., Los Angeles 13.

RELIABLE ELECTRIC CO., 11333 W. Addison, Franklin Park, Ill.—H. C. Mitchell, 1235 Westgate, Los Angeles, Calif.; D. W. Miksch, 5850 57th N. E., Seattle; D. B. Evans, 653 Wildwood Lane, Palo Alto, Calif. Sold through Graybar Electric Co., Inc., all principal cities. Joslyn Pacific Co., Los Angeles, San Francisco, Portland, Seattle and Salt Lake City.

RELIANCE AUTOMATIC LIGHTING CO., 1927 Mead St., Racine, Wis.—Ed Warburg Co., 1207 E. 8th St., Los Angeles; Fletcher Sales Co., 2300 Fourth St., Berkeley 10; Barney H. Hartley, 708 W. Willetta St., Phoenix; Pacific Electric Sales Co., 140 S. E. 28th Ave., Portland 14.

RELIANCE ELECTRIC & ENGINEERING CO., 24701 Euclid Ave., Cleveland, Ohio—Branch Offices: 1525 Adrian Ave., Burlingame, Calif.; 2557 Yates Ave., Los Angeles. Agents: Shaffer & Nelson Co., 139 S. E. Taylor St., Portland; 312 Occidental Ave. Seattle, and P. O. Box 198, Spokane; C. W. Silver Co., 550 W. 7th South St., Salt Lake City; Boyd Industrial Eng. Co., 112 W. Granite St., Albuquerque; Peterson Co., 4949 Colorado Blvd., Denver; H & B Sales Co., P. O. Box 789, Phoenix. Distributor: Calif. Wholesale Elec. Co., 2548 Yates Ave., Los Angeles 22.

RELIANCE GAUGE COLUMN CO., 5902 Carnegie Ave., Cleveland, Ohio—John Morley Co., 1001 Tennessee St., San Francisco; Charles P. Crowley Co., 5430 Jillson St. Los Angeles; Fairman B. Lee Co., 241 Central Bldg., Seattle; Pace-Turpin Co., 726 South Third St. W., Salt Lake City; Joy & Cox, Inc., 2124 Broadway, Denver.

RELTON CORPORATION, 99 N. Lotus Ave., Pasadena, Calif.—Allied Masonry Anchors, Inc., 131 E. Rosecrans Ave., Compton, Calif.; Noble Sales, 1530 Howard St., San Francisco.

REMCON DIV. OF PYRAMID INSTRUMENT CORP., 630 Merrick Rd., Lynbrook, N. Y.—Branch: P. O. Box 3474, Terminal Annex Sta., Los Angeles; F. M. Nicholas Co., 72 Townsend, San Francisco; Northwestern Agencies, 4130 1st Ave. South, Seattle; R. D. Florance & Associates, 2052 Humboldt, Denver; The Darger Co., 211 South 2nd St. West, Salt Lake City.

REPUBLIC CREOSOTING CO., 1615 Merchants Bank Bldg., Indianapolis, Ind.—B. L. George, 1101 Arch Bldg., Los Angeles; L. B. Tollefson, 7841 Lake Washington Blvd., Renton, Wash.; R. K. Nelson, Box 286, Provo, Utah.

REPUBLIC STEEL CORP., Steel & Tubes Div., 224 East 131st St., Cleveland, Ohio—Branch Offices: 2900 E. 44th St., Los Angeles 58; 233 Rialto Bldg., San Francisco 5. Agents: J. C. Shaffer, 1001 S. E. Water, Portland 14; E. H. Nelson, 312 Occidental Ave., Seattle 4; Shaffer and Nelson, W. 1835 Broadway, Spokane 10; C. D. Belt & Co., 2149 South Clermont, Denver 22.

REULAND ELECTRIC CO., 3001 W. Mission Rd., Alhambra—Branch: 1240 E. 12th St., Oakland; J. A. Tudor & Associates, 2605 Western Ave., Seattle, and 1004 S. E. Belmont Ave., Portland; Kern Electric Distributors, 3830 Chester Ave. Bakersfield; Capt. H. S. Walling, 1015 W. Alamos Ave., Fresno; Air-Draulics Co., 3135 N. 29th Ave., Phoenix; James Wright, Jr., Indio, Calif.; Mid-Continent Eng. Co., P. O. Box 3385, Denver.

REVCO, INC., Deerfield, Mich.—T. Fred Rhoy, 2015 East 12th, Oakland, Calif.; B. O. Blaine, 2415 S. W. 146th, Seattle 66.

REVCO INCORPORATED 1900 Lyndale Ave. So., Minneapolis 5, Minn.—R. Meussdorffer Associates, 3487 Cahuenga Blvd., Los Angeles 28; Wm. Citrin, 1435 N. Blackstone Ave., Fresno, Calif.; Hubert Kaub & Co., 1025 Santa Fe Dr., Denver 4.

REVERE COPPER & BRASS, INC., 230 Park Ave., New York City—Branch Offices: W. E. Kalb, Dist. Mgr., World Trade Center, San Francisco; W. H. Hitchcock, Vice-Pres. Pac. Coast Division, 6500 E. Slauson Ave., Los Angeles; James T. Steele, Jr., Dist. Mgr., 314 Fairview Ave. North, Seattle.

REVERE CORP. OF AMERICA, North Colony Rd., Wallingford, Conn.—Branch Offices: Los Angeles and Seattle.

REVERE ELECTRIC MFG. CO., 7420 Lehigh Ave., Chicago, Ill.—L. S. Reed & Co., 1018 Lawrence St., Denver 4; R. E. Tweedy, 356 E. Alvarado St., Phoenix; John A. Schulter, 411 Weatherly Bldg., Portland; Robt. E. Jones, 444 Dexter Horton Bldg., Seattle; John E. Maddox, 914 E. 3rd St., Los Angeles; David Merrill, 192 North First East, Farmington, Utah.

REVOLVATOR COMPANY, 2048 86th St., North, North Bergen, N. J.—Perin Co. Inc., 575 Howard St., San Francisco 5.

REYNOLDS METALS CO., Richmond, Va.—Branch Offices: 3201 3rd St., San Francisco; 3540 Wilshire Blvd., Los Angeles 5; 307 Broad St., Seattle; 2027 N. W. Overton, Portland; Dixon Bldg., Salt Lake City 6; 3321-A E. Mayfair Blvd., Fresno, Calif.; 3443 Fifth Ave., San Diego 3; 3500 West Van Buren St., Phoenix; Pacific Utilities Supply Co., 141 King St., San Francisco.

RHEIN KABEL—A. B. Smedley & Associates, 848 Marcheta Et., Altadena, Calif.

RHODES, INC., M. H., 30 Bartholomew Ave., Hartford, Conn.—Wm. J. Goebel, 225 W. 23rd St., Los Angeles; V. R. Dittman, 2300 S. Madison St., Denver; J. R. Penning, 2323 Second Ave., Seattle; Rudat & Ewing, 1477 Dana Ave., Palo Alto, Calif.

RHODES & SON CO., M. M., 12 Porter St., Taunton, Mass.—Graybar Electric Co., San Francisco, Seattle and Spokane; H. H. Van Luven, 120 S. Hewitt, Los Angeles, and Morse Signal Devices, 8124 Melrose Ave., Los Angeles; Kellogg Switchboard Co., 1663 Mission St., San Francisco.

RICHARDS CO., J. R., Arch St., Carnegie, Pa.—Kobert & Co., 329-331 Winston St., Los Angeles 13.

RICHARDSON-ALLEN CORP., 116-15 Fifteenth Ave., College Point, N. Y.—Carlson Sales, Inc., 1201 Dexter, Seattle, and 935 N. W. 12th Ave., Portland; Fred G. Guthrie, 420 Market St., San Francisco; Randolph Engineering Corp., 12202 E. Garvey Ave., El Monte, Calif.

RIDGE TOOL CO., 400 Clark St., Elyria, Ohio—Seth W. Smith, 6858 Kester Ave., Van Nuys, Calif.; O. E. Perry, 4216 East 72nd St., Seattle 15; David C. Friend, 816 Alta Vista Dr., Linda Mar, Pacifica, Calif.

RILEY STOKER CORP., 9 Neponset St., Worcester, Mass.—Bumstead-Woolford Co., 1411 Fourth Ave., Seattle, 55 New Montgomery St., San Francisco, and 320 S. W. Stark St., Portland; R. G. Meyler Corp., 510 West 6th St., Los Angeles; Pace-Turpin & Co., 726 South Third West, Salt Lake City.

RIMBACH MFG. CO., 408 N. Fair Oaks, Pasadena, Calif.

RIPLEY CO., INC., 1 Factory St., Middletown, Conn.—(Street Lights only) W. H. Eddy Electric Products, Inc., P. O. Box 1428, Phoenix; (Street Lights only) John H. Ormond Co., 600 Sixteenth St., Oakland 12; Wm. J. Cottrell, 4000 S. W. Macadam Ave., Portland 1; Graybar Electric Co. in Seattle, Portland, Spokane, Tacoma, Eugene and Butte.

RITTENHOUSE CO., INC., East St., Honcoye Falls, N. Y.—Geer Sales, 1625 West 12th Ave., Denver 11; Pryne-Ritterhouse Sales Corp., 526 East 12th St., Los Angeles, and 1315 Howard St., San Francisco; W. H. Cress Co., 201 Concord Bldg. Portland 4; Norwest Co., 210 No. 36th St., Seattle 3

ROANWELL CORP., 662 Pacific St., Brooklyn 17, N. Y.—Samuell Jewett, 13111 Ventura Blvd., North Hollywood, Calif.

ROBBINS & MYERS, INC., 1345 Lagonda Ave., Springfield, Ohio—FAN Div.—Gordon Wood, 1855 Industrial St., Los Angeles, and 155 Jackson St. Denver; PROPELLAIR Div.: Harry F. Haldeman Inc., 2401 S. Hill St., Los Angeles; C. W. Boswell 1139 Mission St., San Francisco; C. L. Koerner 12200 S. E. Oatfield Rd. Portland, and Modern Equipment Co., 52 W. 2nd South St., Salt Lake City; Materials Handling Equip., 1795 Sheridan Blvd., Denver 14; MOTORS: 3487 Cahuenga Blvd., Los Angeles; 1139 Mission St., San Francisco; 1732 Blake St., Denver 2; HOIST & CRANE: 329 Second Ave. West, Seattle 99; 2310 N. Alameda, Compton, Calif.; 1795 Sheridan Blvd., Denver 2; PUMPS: Star Machinery Co., 241 Lander St., Seattle; Brod & McClung, 9800 S. E. McBrod Ave., Portland 22; Fernholtz Machinery Co., 8468 Melrose Pl., Los Angeles 46; C. W. Boswell 1139 Mission St., San Francisco 3; Modern Equipment Co., 52 W. 2nd S. St., Salt Lake City 1; Material Handling Equip. Co., 1795 Sheridan Blvd., Denver

ROBERSON, INC., 1539 East 103rd St., Seattle, Wash.—William C. Knapp, East 210 Boone, Spokane; Domick Electric Supply Co., Tacoma; Graybar Elec., Inc., All Branches; Inland Electric Co., Spokane; Miller Supply, Inc., Walla Walla; Palmer Electric Co., Seattle; O. B. Wilt Co., 934 Terminal Way, San Carlos, Calif., and 2314 Duane St., Los Angeles; Canadian General Elec. Co., Ltd., 3030 E. Broadway, Vancouver, B. C.

ROBERTSHAW-FULTON CONTROLS CO., Santa Freeway at Euclid, Anaheim, Calif.—Tower Equipment Co., Mercer Island, Wash.; Stillson Associates, 33 Meadowpark Court, Orinda, Calif.; Carkeek Eng. Co., 285 S. Euclid Ave., Pasadena; Continental Lab., Inc., 517 4th St. W., Billings; Automatic Control & Equip. Co., 5750 Pecos St., Denver; R. E. Donelson Co., P. O. Box 5785, Portland; Control Systems, Inc., P. O. Box 2204, Salt Lake City; Honolulu Iron Works, Honolulu.

ROBERTSON TRANSFORMER CO., 136th and Thornton Sts., Blue Island, Ill.—Ray J. Noel Co. Inc., 4315 S. Western Ave., Los Angeles 62.

ROCKBESTOS WIRE & CABLE CO., Division of Cerro de Pasco Corp., Nicoll and Cramer Sts., New Haven, Conn.—Branch Offices: H. G. Jones, 1807 E. Olympic Blvd., Los Angeles 21; F. J. Balzer, 235 E. Third Ave., San Mateo, Calif.

ROCKWELL MFG. CO., 400 N. Lexington Ave., Pittsburgh 8, Pa.—Branch Offices: 525 Market St., San Francisco; Tower Bldg., 1700 Broadway, Denver; 3136 E. 11th St., Los Angeles; 119 W. Denny Way, Seattle. Factory: Highway 65 and Pioneer Ave., Porterville, Calif.

RODALE MFG. CO., INC., Emmaus, Pa.—Branch Office: 338 East Second St., Los Angeles; K. B. Schumann Co., 1073 Galapago St., Denver; Walter Rubin, 6452 Penfield Ave., Woodland Hills, Calif.; Fred Stokes, 11509 Second Ave. N. W., Seattle.

RODEFER GLEASON GLASS CO., 21st and Union Sts., Bellaire, Ohio—R. E. Baum, 681 Market, San Francisco; Maddox Sales Co., 914 E. Third St., Los Angeles.

ROEBLING'S SONS CORP., JOHN A., 640 S. Broad, Trenton, N. J.—District Offices: 5340 E. Harbor St., Los Angeles 22; 900 1st Ave. So., Seattle 4; 340 Roebling's Road, South San Francisco.

ROGERS CORPORATION, Rogers, Conn.—Electrical Specialty Co., in following cities: 2820 E. 12th St., Los Angeles; 158 11th St., San Francisco; 2026 Arapahoe St., Denver; 2406 1st Ave. So., Seattle; 210 W. Adams St., Phoenix; 2588 Simpson Ave., Salt Lake City, and Portland, Ore.

ROLATAPE, INC., 1741 14th St., Santa Monica, Calif

"AWRIGHT, WHO GOOFED?"

When that new substation is delayed for lack of switchgear or connectors, somebody's on the spot. Whenever delivery is an important factor, be sure . . . call Royal *first!*

Royal's compact operation is purposely kept flexible so each order gets custom service and *delivery when needed.* Every one of our customers get the "Royal treatment" . . . it's a pledge we live by.

Whether your job is normal or rush, large or small, you'll like dealing with Royal—for switchgear, any of 5,000 standard connectors, or specially engineered designs. Save time and trouble—order from Royal.

For handy, on-the-spot information of Royal products, write for Bulletins on Type RVL Air Break Switch, Standardized Substations or Aluminum Power Connectors.

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1122 EAST 87TH STREET • CHICAGO 19, ILLINOIS

Designers and Manufacturers of Power Switching Equipment and Special Electrical Devices

ROLL-A-REEL, INC., 4630 Reading Rd., Cincinnati Ohio—Westinghouse Electric Supply all principal cities; Western Electric, 2400 Yates Ave., Los Angeles; General Electric Supply, 900 East Front St., Butte, Mont.

ROLLER-SMITH CORP., 50 Avenue L, Newark 1 N. J. (See Federal Pacific Electric Co.) Agents: G. B. Miller So., 1550 N. Highland Ave., Hollywood 28, Calif.; J. C. McDougall, 520 First Ave., South, Seattle 4.

ROME CABLE DIVISION OF ALCOA, P. O. Box 71, Rome, N. Y.—Sales Offices: Walter E. Michalke, Manager, 2509 Equitable Life Bldg., San Francisco 4; H. Lee Rawlings, Representative, 230 So. 4th West, Salt Lake City 1, Utah; Howard S. Warren, Manager, 1145 Wilshire Blvd., Los Angeles 14; Anton M. Mitrovich, Manager, 1411 Fourth Avenue Bldg., Seattle 1, Wash.; Robert H. Kelly, Representative, 719 First National Bank Bldg., Phoenix, Ariz. Distributors: Graybar Electric Co., Inc., Westinghouse Electric Supply Co., General Electric Supply Co., all principal cities.

ROSS OPERATING VALVE CO., 120 E. Golden Gate Ave., Detroit 3, Mich.—R. W. Atkinson Co., 3713 Santa Fe Ave., Los Angeles 58 and 655 Folsom St., San Francisco 7; Alta Engineering Co., 2950 South Fox St., Englewood, Colo.; Hydraulic & Air Equipment Co., 2316 N. W. Savier St., Portland, and 1522 4th Ave., So., Seattle 4, and Box 1572, Medford, Ore.

ROWAN CONTROLLER, 2400 Homewood Ave., Baltimore, Md.—W. E. Starr Co., 926 S. Atlantic Blvd., Los Angeles 22.

ROYAL ELECTRIC CORP., 95 Grand Ave., Pawtucket, R. I.—Eckert-Lloyd Co., 1950 Naomi Ave., Los Angeles, and 1225 Sixth St., San Francisco; Northwestern Agencies, 4130 First Ave., South, Seattle; Marshall James, 2941 N. W. Quimby, Portland; Wm. Benndorf Co., 221 E. Camelback Rd., Phoenix; Dougherty Enterprises, P. O. Box 188, Kailua, Hawaii.

ROYAL ELECTRIC MFG. CO., INC., 1122 E. 87th St., Chicago, Ill.—A & A Supply Co., 114 Morningside N. E., Albuquerque; Roy E. Coulson, 8050 North Third Ave., Phoenix; H. C. Guire Co., 715 S. York St., Denver; Bill Horning Sales, 902 Friedel Ave., Vancouver, Wn.; Leonard M. Slusser, 318 Dooly Block, Salt Lake City 1; Krause Eng. Co., 741 E. Artesia St., Long Beach, Calif.; C. E. Ingalls & Sons, 681 Market St., San Francisco; Harold D. Kroh, 836 Ocean View Drive, Honolulu 16, Hawaii. (See ad, p. 64)

RUBY LIGHTING CORP. (See Lighting Dynamics).

RUGGLES - KLINGMANN MFG. CO., Foster Court, Salem, Mass.—Branom & Leeland Instrument Co., 2137 Second Ave., Seattle 1; C. H. Spencer & Co., 210 West 33rd South, Salt Lake City; Hendrie & Bolthoff Co., 1635 17th St., Denver 17; Charles Meriam Co., 5017 Telegraph Rd., Los Angeles 22; Ref. & Power Spec. Co., 380 Brannan St., San Francisco 7.

RUNDEL ELECTRIC CO., 230 Adrian Road, Millbrae, Calif.—Shaffer & Nelson, Inc., in following cities: 1001 S. E. Water Ave., Portland, 312 Occidental Ave., Seattle, West 1835 Broadway, Spokane, and 1415 South Main, Salt Lake City; JHN Engineering Co., 2122 S. Atlantic Blvd., Los Angeles 22.

RUSGREEN MFG. CO., 14262 Birwood Ave., Detroit, Mich.—Ralph L. Mooney, 540 E. Rose Lane, Phoenix; Matzinger-Johnson Co., 1329 Willow St., Los Angeles 13; R. T. Lewis Co., 747 Forest St., Denver 20.

RUSSELL MFG. CO., Industrial Heights, Middletown, Conn.—Branch Office: 555 5th Ave., Oakland 6; Insulation & Wires, Inc., 6415 East Fleet St., Los Angeles, 1112 N. W. 19th Ave., Portland, and 255 Loomis St., San Francisco.

RUSSELL & STOLL CO., INC., 125 Barclay St., New York City N. Y.—E. A. Will, 534 First Ave. So., Seattle 4; Allied Industries, 412 Seaton St., Los Angeles; T. J. Vilan, 1871 S. Broadway, Denver.

S & C ELECTRIC CO., 4435 Ravenswood Ave., Chicago, Ill. — Western Sales Division Office: 1640 Rollins Road, Burlingame, T. E. Palmer, Manager; W. R. Sibbett & F. C. Trayer, Sales Engineers, 1640 Rollins Rd., Burlingame, Calif.; F. A. Allehoff, Sales Engineer, 516 S. E. Morrison, Portland 14. Representatives: Randolph Engineering Co., 12202 E. Garvey Ave., El Monte, Calif., and 1029 N. First St., Phoenix; Riter Engineering Co., 1369 Major St., Salt Lake City 15; Peterson Co., 4949 Colorado Blvd., Denver 15.

SGE CORPORATION, 3348 West 85th St., Inglewood, Calif.

S & M LAMP CO., 2369 East 51st St., Los Angeles, Calif.—Chas. A. Blakely, 754 Natoma St., San Francisco; C. L. Keeshen, 119 W. 36th Place, Los Angeles; John Allen Ware, 301 West G St., San Diego, and 4807 N. 29th Place, Phoenix; Norwest Co., 330 2nd Ave. West, Seattle; J. S. Edwards Co., 1206 Hamilton St., Vancouver, B. C.; J. W. Reynolds Co., 1479 South Main St., Salt Lake City; W. H. Cress Co., 201 Concord Bldg., Portland; Sheeter & Co., 1417 Georgia St., Los Angeles.

SAFEPAC CORP., 320 S. San Marino Ave., San Gabriel, Calif.

SAFETY ELECTRIC EQUIPMENT CO., 2 Linares Ave., San Francisco, Calif.—Sold Direct. (See ad, p. 100)

SAFETY LIVE LINE TOOL CO., 973 86th Ave., Oakland, Calif.—T. A. Ford Co., 402 Agostino Road, San Gabriel, Calif.

SAFETY SWITCHBOARD CO., INC., 910 89th Ave., Oakland, Calif.—Branch: 470 N. 16th St., Sacramento. Distr.: Herning Co., 1178 Folsom St., San Francisco; Savasta Elec. Supply, 617 County Rd., San Carlos; Valley Elec. Co., 1831 18th St., Sacramento, and 1117 Parkview, Redding; Elec. Corp., 178 10th St., Oakland; National Electric, Oakland, and 1 14th St., San Francisco; Phillips & Edwards, 110 S. Aurora, Stockton, Calif.; Graybar Electric Co., Fresno and Oakland. (See ad, p. 102)

ST. LOUIS MALLEABLE CASTING CO., 7701 N. Conduit Ave., St. Louis, Mo.—Maydwell & Hartzell, Inc., in following cities: 427 W. 5th St., Los Angeles 13; 870 Tennessee St., San Francisco 7; 306 Dexter Ave., Seattle 4; 2318 N. W. Vaughn, Portland 10; P. O. Box 3586, Phoenix; 121 S. Monroe St., Spokane, Wash.; 5823 Henley Dr., San Diego; 110 East 6th St., Tucson; 803 W. Jackson, Medford.

ST. REGIS PAPER CO., Panelyte Division, Enterprise Ave., Trenton, N. J.—Electrical Specialty Co. in the following cities: 158-168 Eleventh St., San Francisco 3; 2026 Arapahoe St., Denver 5; 1822 N. W. 25th Ave., Portland 6; 2820 E. 12th St., Los Angeles 23; 2442 First Ave., So., Seattle 4; 210 W. Adams St., Phoenix, and 2588 Simpson Ave., Salt Lake City.

SAGE ELECTRONICS CORP., Country Club Road, East Rochester, N. Y.—M. A. Stolaroff Co., 4622 W. Slauson Ave., Los Angeles 43; Hugh Gray Co., 2166 Market St., San Francisco; Seatronics, Inc., 1817 Norman St., Seattle 44; R. V. Weatherford Co., 6921 San Fernando Rd., Glendale 1, Calif.

SALISBURY & CO., W. H., 401 N. Morgan St., Chicago, Ill.—R. E. Cunningham & Son, 530 W. Sixth St., Los Angeles; Graybar Electric Co., Inc., and Line Material Co., all principal cities; Western Hardware & Tool, 122 10th St., San Francisco; R. E. McDougral, 829 Maryland, Butte.

SALSBERG MFG. CO., Box 267, Martinez, Calif.—Ross M. Vieths Co. Inc., 3632 41st West, Seattle.

SANGAMO ELECTRIC CO., 1301 No. 11th St., Springfield, Ill.—T. S. Wood, 5908 California Ave., Seattle 16; L. A. Nott, 1061 Howard St., San Francisco 3; H. W. Wittenburg, 1839 W. Pico Blvd., Los Angeles 6; Mountain States Machinery, 1526 Blake St., Denver 2; Frank Gorman, 1701 Texas St., El Paso; J. E. Redmond, 625 W .Madison, Phoenix; R. E. McDonough, 829 Maryland Ave., Butte, Mont.; R. L. Schoenberger, 811 S. W. 6th Ave., Portland 4; Gorman Eng., 1330 - 12th N. W., Albuquerque.

SANTA FE TANK DIVISION, Fluor Prod. Co., 12000 E. Washington Blvd., Whittier, Calif.; 1819 W. 6th St., Los Angeles, and Equitable Life Bldg., San Francisco.

SAUEREISEN CEMENTS CO., 1045 N. Canal St., Pittsburgh 15, Pa.—Montgomery Brothers Inc., in following cities: 1122 Howard St., San Francisco; 4800 District Blvd., Los Angeles 11; 911 Western Ave., Seattle; 1632 N.W. Johnson, Portland; 5103 N. Hawthorne, Spokane.

SAYLOR & SON, FRANK D., 13095 Greeley, Detroit, Mich.—Allied Industries, 412 Seaton St., Los Angeles; E. A. Will, 534 First Ave. South, Seattle 4.

SCHAUB ENGINEERING CO., FRED H., 5300 Belmont Road, Downers Grove, Ill.—Johnson Eng. Co., 534 20th St., Oakland 12; Meco Acme Boiler Co., Inc., 2426 Commodore Way, Seattle 99; Herman & von Rosenberg, 1051 11th St., Denver 4; A. W. Mortensen Co., 1117 S.E. Morrison St., Portland; Power Eng. Co., 1806 So. State St., Salt Lake City.

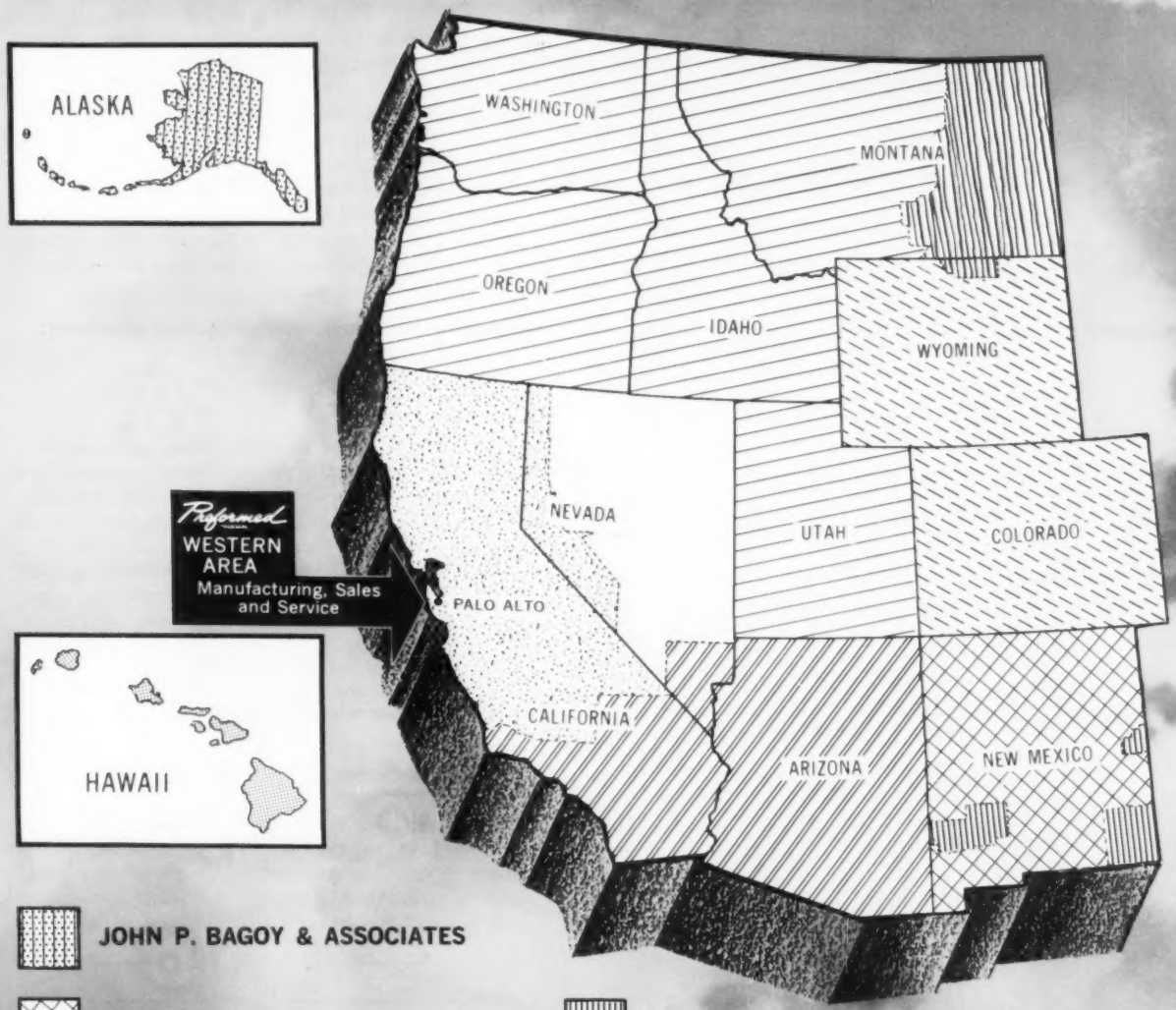
SCHAUER MFG. CORP., 4500 Alpine Ave., Rossmoyne (Cincinnati), Ohio—Barstow & Doran, 7406 S. Grand Ave., Los Angeles; W. H. Connors Co., 375 Birch St., Denver; Sinal-Johnson, Inc., 845 Jessie St., San Francisco.

SCHENECTADY VARNISH CO., INC., Congress and 9th Ave., Schenectady, N. Y.—Electrical Specialty Co., in following cities: 158 11th St., San Francisco 3; 2820 E. 12th St., Los Angeles 23; 2442 First Ave., Seattle; 2026 Arapahoe, Denver.

ELECTRICAL WEST

Spokesman for the Most Highly Electrified Region of the U.S.

Preformed TRADEMARK PRODUCTS for WESTERN UTILITIES are sold and serviced by WESTERN REPRESENTATIVES*



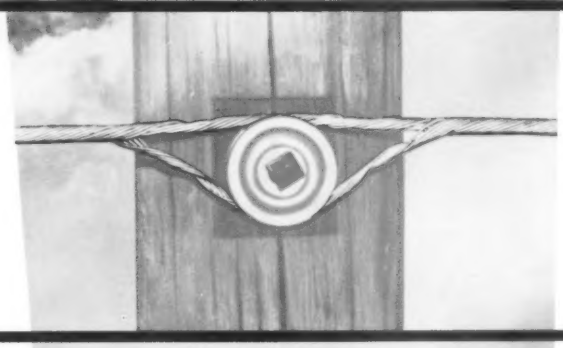
- JOHN P. BAGOY & ASSOCIATES
- C. B. ANDERSON ELECTRIC COMPANY
- BERGSTROM-VERBARG COMPANY
- EARL S. CONDON COMPANY
- PETERSON COMPANY
- ELGIN B. ROBERTSON ORGANIZATION
- K. M. RYALS COMPANY
- SHAFFER AND NELSON, INC.
- HONOLULU ELECTRICAL PRODUCTS COMPANY, LTD.

* addresses on the back page of this folder

TRADE MARK "ARMOR-GRIP"

Preformed TRADEMARK

ARMOR-GRIP SUSPENSION (AGS) eliminates failure by eliminating stress concentration. The conductor is cushioned in a cradle of aluminum-reinforced neoprene. Uniformity of application reduces installation costs. Available for ACSR Conductors in sizes PENGUIN (4/0 : 6 x 1) through FALCON (1,590,000 CM : 54 x 19); and for All-Aluminum Conductors (4/0 : 7-Wire) through (1,590,000 CM : 61-Wire).



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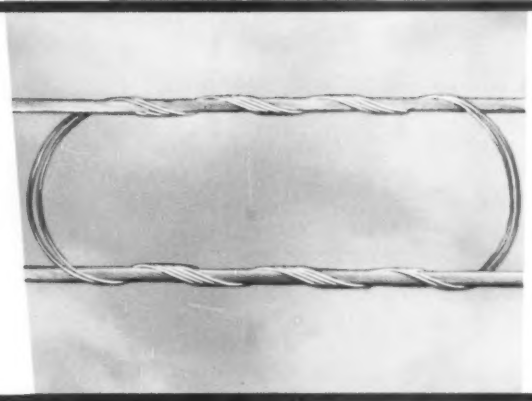
TWIN-GRIP SUSPENSION is the safest, simplest and most economical method of satisfactorily supporting static wires on H-frames or towers with components that are compatible with the static wire material—including Alumoweld. Eliminates wear and abrasion, and gives superior vibration protection to the static wires. Fast, easy installation with uniformity of application every time.



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SPACERS maintain design spacing between two, three or four bundled conductors with corona-free characteristics at operating voltage. Inhibits Aeolian vibration. Easy, fast, tool-free applications. Noise-free performance. In extensive laboratory testing, Spacers have withstood the rigors of vibration amplitudes exceeding double the normal field conditions for durations up to 50 million cycles with no deteriorating effects to either Spacer or conductor.

Preformed TRADEMARK

ARMOR RODS reinforce conductors at support points to protect them from damage caused by vibration, chafing, arc over, concentrated clamp and tie-wire stresses. Economical and easy application can be made hot or cold; and they are reusable.

PREFORMED Armor Rods are made of:	For Use On:
Aluminum Alloy	ACSR Distribution Conductors
	ACSR Overhead Ground Wire
	ACSR Transmission Conductors
	All-Aluminum Distribution Conductors
	All-Aluminum Transmission Conductors
	Kaiser AAAC and Reynolds 5005 Aluminum Alloy Conductors
	"Compresto" ACSR Conductors
	"Compresto" All-Aluminum Conductors
Galvanized Steel	ACSR Conductors
	Galvanized Steel Strand
Bronze or Copper-Covered Steel	Copper-Covered Steel and Copperweld-Copper Conductors
	Copper Conductors
Alumoweld	Alumoweld Conductors
	Alumoweld Overhead Ground Wires
	Alumoweld Strands

Ask your PREFORMED Representative for complete specifications and price information on these PREFORMED products.

Products in this folder are patented

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ALUMINUM-GRIP DEAD-ENDS provide the most modern means of securing transmission and distribution conductor, ground strand, and service drops. Fast, easy, tool-free application reduces costs. Simple boltless design streamlines appearance; helical legs distribute stresses uniformly over a wide area of conductor. PREFORMED Aluminum-Grip Dead-Ends are made for:

- ACSR Transmission Conductor
  ACSR Distribution Conductor
- All-Aluminum Transmission Conductor
- All-Aluminum Distribution Conductor
- Aluminum or ACSR Bare-Neutral Triplex Service Drop Cable
- Kaiser AAAC and Reynolds 5005 Aluminum Alloy Conductors

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GUY-GRIP dead-ends (Standard Loop) provide the Modern Twist in Guying at the top, breaker and anchor. The only accessories which develop the full rated breaking strength of the guy strand, including EHS. GUY-GRIP dead-ends are applied entirely by hand—save time, trouble and strand. May be re-used. Made in materials compatible with the guy strand: Galvanized Steel, Copper-Covered Steel, Bronze, Aluminized Steel, Stainless Steel, and Alumoweld.

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NEOPRENE COATED DEAD-ENDS provide positive grip without bolts, clamps or jaws; and uniformily distribute radial pressure over entire surface area of jacketed conductor. Eliminate the possibility of conductor corrosion caused by stripping conductor jacket. Prevent wear and abrasion. For use on Neoprene and Polyethylene Weatherproof AA and ACSR conductors.

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GUY-GRIP dead-ends (Cabled Loop)...the same dependable product with the new stranded loop which provides greater adaptability for multiple guying and easier tensioning for down guying and span guying. Cabled Loop GUY-GRIP dead-ends are currently made for strand sizes 5/16", 3/8", 7/16" and 1/2" in the following materials: Galvanized Steel (Utility Grade, High Strength and Extra-High Strength), Copper-Covered Steel (including Type M), Calsun Bronze, Aluminized Steel, Stainless Steel, and Alumoweld.

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SPIRAL VIBRATION DAMPER is effective over the full range of vibration frequencies on smaller size transmission or rural distribution type conductors in sizes No. 6 to 4/0.

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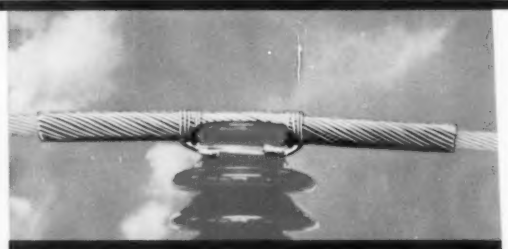
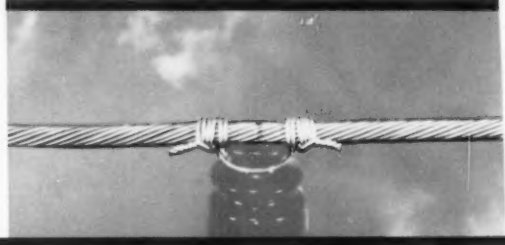
LINE GUARDS are used to protect conductors from flash-over; and abrasion from clamps and tie-wires. They provide economical protection in applications where vibration is not a problem, on post top, pin or clamp top insulators. PREFORMED Line Guards are made of Aluminum Alloy for use on the following conductors: ACSR, All-Aluminum, Kaiser AAAC and Reynolds 5005 Aluminum Alloy.





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PLASTIC TREE GUARDS protect covered cables or conductors from trees, poles, building corners or other abrasive obstacles. Made for: Neoprene and Polyethylene Triplex Cables with:

- AA Bare-Neutral Messenger
- ACSR Bare-Neutral Messenger
- ACSR Reduced Size Bare-Neutral Messenger
- Neoprene and Polyethylene Covered AA and ACSR Conductors
- URC Type Triple and Double Braid AA and ACSR Conductors

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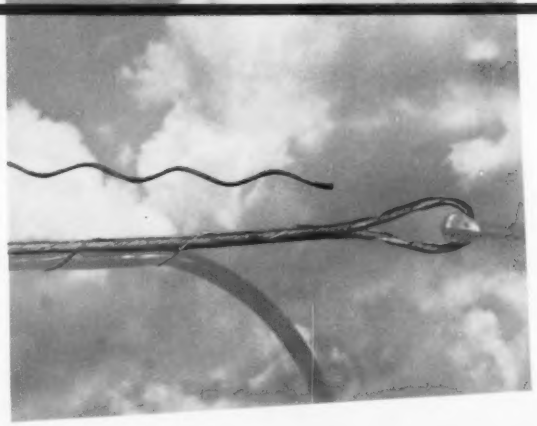
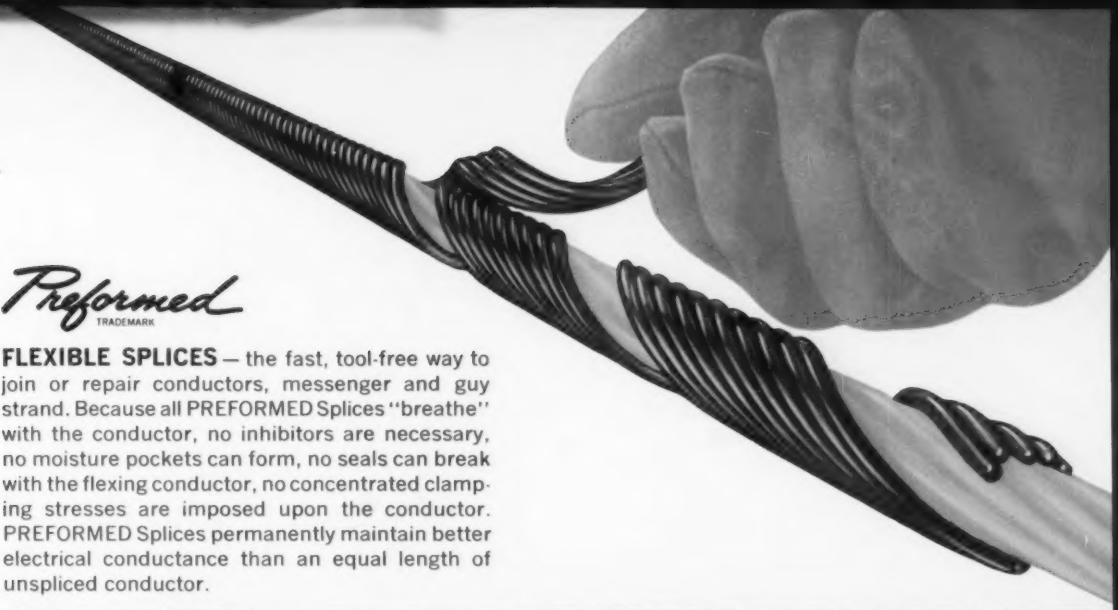
LASHING RODS—Quick, neat way to lash cables to messenger without clips, clamps or spinners. No tools required. Rods are spring tempered; may be re-used. PREFORMED Lashing Rods are made of Galvanized Steel or Copper-Covered Steel.



U. S. Pat. Nos. 2,761,273/2,609,653/2,691,865/2,722,393/2,929,195/2,947,504/2,959,632/2,744,707; other Patents Pending



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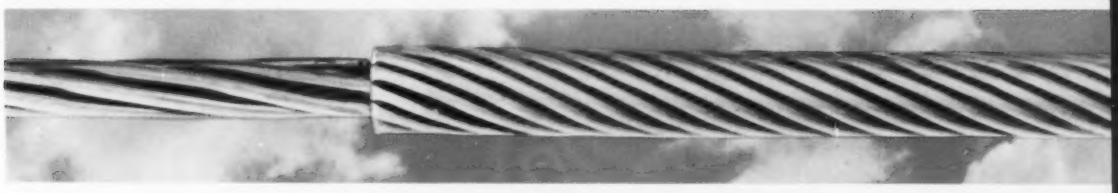
FLEXIBLE SPLICES — the fast, tool-free way to join or repair conductors, messenger and guy strand. Because all PREFORMED Splices "breathe" with the conductor, no inhibitors are necessary, no moisture pockets can form, no seals can break with the flexing conductor, no concentrated clamping stresses are imposed upon the conductor. PREFORMED Splices permanently maintain better electrical conductance than an equal length of unspliced conductor.



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ALUMINUM-GRIP SPLICES are made to hold the full strength of the aluminum strand layers of ACSR conductor, and the full rated strength of All-Aluminum, Kaiser AAAC, and Reynolds 5005 conductors.

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FULL-TENSION SPLICES hold the full-rated strength of ACSR conductors. Splices are also available for full-tension applications on Galvanized Steel, Copper-Covered Steel, Type M Copperweld guy strand and Alumoweld.

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ARMOR SPLICES are used to repair **existing** damage from concentrated clamp stresses at support points and to guard against future damage from arc over and vibration. PREFORMED Armor Splices are made for Aluminum, Copper-Covered Steel, Copperweld-Copper, and Copper conductors.

Ask your PREFORMED Representative for complete specifications and price information on these PREFORMED products.

Preformed TRADEMARK PRODUCTS for WESTERN UTILITIES sold and serviced by these WESTERN REPRESENTATIVES

C. B. ANDERSON ELECTRIC COMPANY
Amarillo, Texas
P. O. Box 1836
111 East First Street
Phone: DRake 6-6443

JOHN P. BAGOY & ASSOCIATES
Box 1005
611 11th Avenue
Anchorage, Alaska
Phone: BRoadway 7-8011

BERGSTROM-VERBARG COMPANY
Minneapolis 1, Minnesota
634 Midland Bank Building
Phone: FEderal 9-0028

EARL S. CONDON COMPANY
Los Angeles 5, California
Suite 915—Tishman Building
3450 Wilshire Boulevard
Phone: DUnkirk 1-3951

HONOLULU ELECTRICAL PRODUCTS COMPANY, LTD.
Honolulu, Hawaii
630 Piikoi Street
Phone: 5-4971

PETERSON COMPANY
Denver 16, Colorado
4949 Colorado Blvd.
Phone: DExter 3-5434

ELGIN B. ROBERTSON ORGANIZATION
Dallas 3, Texas
Elgin B. Robertson, Inc.
1339 Plowman Avenue
Phone: WHitehall 2-3157

K. M. RYALS COMPANY
San Francisco 7, California
9 First Street
Phone: YUkon 2-5510

SHAFFER AND NELSON, INC.
Portland 14, Oregon
1001 S. E. Water Ave.
Phone: BElmont 4-7437

Salt Lake City 15, Utah
Room 201
1415 South Main Street
Phone: HUnter 4-3382

Seattle 4, Washington
312 Occidental Avenue
Phone: MUtual 2-0187

Spokane 10, Washington
P. O. Box 198
1835 Broadway,
Phone: FAirfax 7-9528

PREFORMED LINE PRODUCTS COMPANY

600 Hansen Way
Palo Alto, California
Call DAvenport 4-2561

5349 St. Clair Avenue
Cleveland 3, Ohio
Call EXpress 1-3571
or wire "Preformed Cleveland"

You can look up to *Preformed* TRADEMARK

is a trademark which is registered in the U.S. Patent Office and is the property of Preformed Line Products Company.

SCHWAGER-WOOD CORP., 8024 S. W. 35th Ave., Portland, Ore.—Branch: 2823-42nd Ave. W., Seattle; Love Electric Co., 1914 Market St., Tacoma; Slaybaugh-Thompson Co., 100 West 13th Ave., Denver 4; A. B. Smedley, 848 Marcheta St., Altadena, Calif.; Clarence W. Silver Co., 550 W. 7th South St., Salt Lake City 4; Artwel Electric Inc., 1485 Bayshore Blvd., San Francisco.

SCHMITT STEEL, INC., 2765 N. W. Nicolai, Portland 10, Ore.—Western Power Products Co., 2765 N. W. Nicolai, Portland 10.

SEAMLEX, INC., 41 24th St., Long Island City, N. Y. —S. A. Beckley & Co., 1816 West 75th St., Los Angeles; Huson Sales & Eng. Co., 2312 West Walton Ave., Spokane; Claude B. Smith Co., 844 West 12th St., Ookakland.

SECHRIST MFG. CO., 4990 Acoma St., Denver, Colo. —A. R. Parker Co. 420 Market St., San Francisco; Gordon Laursen, 1116 Dartmouth N. E., Albuquerque; Stearns Sales Co., Rt. 6 Box 945, Tacoma; C. A. Peterson, 5757 Huntington Dr. No., Los Angeles; The Darger Co., 211 South 2nd West, Salt Lake City.

SECODE CORPORATION (Formerly Electrical Communications, Inc.), 555 Minnesota St., San Francisco 7, Calif.—King Moon Co., Box 178, Woodland Hills, Calif.

SECULATE, 681 Market St., San Francisco, Calif.—Industrial Eng. and Equip. Corp., 2975 Wilshire Blvd., Los Angeles 5; Wrathall and Krusi, 681 Market St., San Francisco.

SEEDORFF & CO., INC., A. P., Bell, Calif.—E. B. Cook Co., 1063 Howard St., San Francisco.

SEELY INSTRUMENT CO., INC., 377 Fourth St., Niagara Falls, N.Y.—Air & Hydraulic Equipment Co., 4863 Telegraph Rd., Los Angeles 22; E. H. Severson Co., 5614 E. 59th St., Seattle 5.

SEGIL CO., L. J., 2500 W. North Ave., Chicago, Ill. —Frank Steiner, 5100 Santa Monica Blvd., Los Angeles 29; Al Slater & Associates, 9011 15th Ave., N.E., Seattle.

SEL-REX CORP., 75 River Road, Nutley 10, N. J.—Branch: 2180 Colorado Ave., Santa Monica, Calif.

SEQUOIA WIRE & CABLE, Sub. of Anaconda Wire & Cable Co., 2201 Bay Road, Redwood City, Calif. — Branch: Burbank, Calif. Branch Offices: 816 W. 5th St., Los Angeles; 120 Montgomery St., San Francisco; 954 Stuart Bldg., Seattle; 405 South Main St., Salt Lake City; 706 Railway Exchange Bldg., Denver.

SESSIONS CLOCK CO., 61 East Main St., Forestville, Conn.—Lee Arter Co., 5221 El Mirador Dr., Los Angeles; Bryan & Herbert, 231 Western Merchandise Mart, San Francisco; Maizels Co., 1633 N. W. 21st Ave., Portland, Ore.; Sam Maizels Co., Terminal Sales Bldg., Seattle 1.

SHAKEPROOF DIVISION of Illinois Tool Works, Calinoy Div. of Ill. Tool Works, 3155 W. El Segundo Blvd., Hawthorne, Calif.—Curt Carr Co. Inc., 5406 Fernwood Ave., Los Angeles.

SHALDA MFG. CO., INC., 156 W. Providencia, Burbank, Calif.—L. M. Baxter, 1238 N. W. Glisan, Portland, and 1016 1st Ave. S., Seattle; Howard & Goepp Co., 1301 6th St., San Francisco; Jack Murphy Co., 1901 4th Ave., San Diego 1; Roy J. O'Donnell Co., 680 Delaware, Denver 4; Southwestern Sales Co., 6218 W. Indianola, Glendale, Ariz.

SHALLCROSS MFG. CO., Selma North Carolina—J. C. Van Groos Co., 21051 Costanso, Woodland Hills, Calif.; Arvin Bell, 385 E. Green St., Pasadena 1; C. B. Parsons & Co., 3028 First Ave., Seattle 1; van Groos Co., 1178 Los Altos Ave., Los Altos, Calif.

SHANNON LUMINOUS MATERIALS CO., 7356 Santa Monica Blvd., Hollywood 46, Calif.—Leo Kaufmann, 72 Sacramento St., San Francisco; Commercial Paint Co., 1173 Harrison St., Seattle 9; Boise Blue Print Co., 1009 Idaho St., Boise; Salt Lake Blue Print & Supply Co., 245 S. State St., Salt Lake City; Phil's Paint Spot, 131 W. Main, Missoula; Jay Displays, 228 B Street, San Diego; Stagecraft Industries, 2852 N.W. 31st Ave., Portland.

SHERMAN MFG. CO., H. B., 22 Barney St., Battle Creek, Mich.—William A. Matzke, 809 Terminal Sales Bldg., Seattle 1; D. L. Powers, P. O. Box 1145, Whittier, Calif.; D. J. Mackey, P. O. Box 988, Albuquerque; Rocky Mt. Elec. Sales Co., 16 Wazee Market, Denver.

SHERMAN PRODUCTS, INC., 3200 W. 14 Mile Rd., Royal Oak, Mich.—J. W. Greenis, Zone Mgr., P. O. Box 481, San Francisco; Columbia Tractor & Implement Co., 2720 N. W. 29th Ave., Portland; Pacific Tractor & Impl. Co., 2512 Florida St., Richmond, Calif.; Intermountain Ford Tr. Sales Co., 703 W. Second South, Salt Lake City; Wymont Tractor & Equip. Co., 3907 First Ave. South, Billings; McCarty-Sherman Dist. Corp., 275 Mariposa St., Denver; Hight-Thompson, Inc., 4770 East 48th St., Los Angeles.

SHERMAN & REILLY, INC., 101 First St., Chattanooga 2, Tenn.—Sold direct.

SHURE-SET FASTENING SYSTEM, 12117 Berea Road, Cleveland 11, Ohio—(See Ramset Fastening System.)

SHURITE, 61 Hamilton, New Haven 8, Conn.—James J. Becker Co., 221 W. Galer St., Seattle 99; F. W. Moulthrop Co., 575 10th St., San Francisco 3; Howard M. Saul & Assoc., 5015 San Vicente Blvd., Los Angeles 19; A. J. Nelson Co., P. O. Box 5502, Denver.

SIERRA ELECTRIC CORP., 15100 S. Figueroa, Gardena, Calif.—The Sanderlin Co., 129 First Ave. W., Seattle, and 79 S.E. Taylor St., Portland 14; Stanley Sales Corp., 1122 Folsom St., San Francisco; Jack Murphy, 1901 4th Ave., San Diego; J. W. Reynolds Co., 375 Andrew Ave., Salt Lake City 15; George E. Metcalf Co., 3044 Ash St., Denver; Gordon W. Laursen & Son, 1116 Dartmouth, N. E., Albuquerque. (See ads, pp. 71, 108)

SIERRA SWITCHBOARD CO., 110 Constitution Drive, Menlo Park, Calif.. (See ad, p. 101)

SIERRA TRANSFORMER CO., 8833 Miner St., Los Angeles, Calif.—The Baxter Co., 101 Kansas St., San Francisco; Bruce-Emmett Co., 830 S. E. Alder St., Portland 14; Alfred E. Linzer Co., 1507 Kapiolane Blvd., Honolulu 14, Hawaii.

SIGNAL INDICATOR CORP., 42 Stewart Ave., Brooklyn, N. Y.—Jack Berman Co., 1141 S. La Cienega Blvd., Los Angeles; F. W. Moulthrop Co., 575 Tenth St., San Francisco; Burt C. Porter Co., 1209 Poplar Pl., Seattle; Hyde Electronics, 888 So. Lipan St., Denver.

SIGHTMASTER CORP., 50 Aleppo St., Providence, R. I.—Raymond Vinson, P. O. Box 8363, Denver; George B. Ellis, 2316 El Camino Real, Monutain View and 6715 Hollywood Blvd., Hollywood, Calif.; William Lanphear Co., 3215 Western Ave., Seattle.

SILENT HOIST & CRANE CO., 841 63rd St., Brooklyn 20, N. Y.—Branch Offices: Cost Reduction Equipment Co., 5200 Chokemco St., South Gate, Calif.

SILICONE DIV., Union Carbide Corp., 30 E. 42nd St., New York City, N. Y.—Branch Offices: 2770 Leonis Blvd., Los Angeles 58.

SILVRAY LIGHTING, INC., 100 W. Main St., Bound Brook, N. J.—Heintz & Wells, 1500 Westlake, Seattle; H. X. Sheeter, 1417 Georgia St., Los Angeles; L. J. Van Nostrand 1400 N Street, Sacramento, Calif.; Smoot-Holman Co. (Licensee), Inglewood, Calif.

SIMONDS MACHINE CO., INC., 260 Saxon Rd., Southbridge, Mass.—M. A. Stolaroff, 4614 Northridge Dr., Los Angeles.

SIMPLEX CO., INC., 1139 N. MacArthur, Springfield, Ill.—Star Machinery, 241 Lander, Seattle 4; Thomas Electric Co., 549 W. 2nd St. S., Salt Lake City; International Electric Co., 5710 Santa Fe Ave., Los Angeles; Walter Corman, 7432 W. 80th St., Los Angeles.

SIMPLEX TIME RECORDER CO., 26 S. Lincoln, Gardner, Mass. — Branch Offices: 933 W. Second St., Los Angeles; 47 Second St., San Francisco; 2315 N. W. Irving St., Portland; 906 Third Ave., Seattle; 434 W. Washington St., Phoenix; 43 W. Broadway, Salt Lake City; 1550 Broadway, Denver; 714 Idaho St., Boise; 303 S. Wolcott St., Casper, Wyo.

SIMPLEX WIRE & CABLE CO., 79 Sidney St., Cambridge 39, Mass.—Branch Offices: Simplex Wire & Cable Co. of Calif., Garnett-Young & Co. Managers in following cities: 3775 S. Broadway, So. Los Angeles; 390 Fourth St., San Francisco 7; 1928 1st Ave. South, Seattle 4; 1238 N. W. Glisan St., Portland 9, and 1400 No. 32nd St., Phoenix; Krippner & Polley, 1166 Elati St., Denver 4; Conley Eng. Co., 165 S. 1st West St., Salt Lake City 1. (See ad, third cover)

SIMPSON COMPANY, 1060 E. 11th St., Oakland 6, Calif.—The Electric Corp., 145 9th St., San Francisco, 178 10th St., Oakland, 110 S. Aurora, Stockton; Lavenson A. Savasta, 586 6th St., San Francisco; Electrical Distributors, Rice St., San Jose; Smith & Thomas Co., 586 1st Ave. So., Seattle; Slakey Bros., Inc., 2145 Fitchburg Station, Oakland. Sold by leading jobbers all principal cities.

SIMPSON ELECTRIC CO., 5200 W. Kinzie St., Chicago 44, Ill.—R. G. Bowen, 446 Broadway, Denver 3; D. H. Burcham, 510 N. W. 19th Ave., Portland 5; C. R. Lynch, 3307 Glendale Blvd., Los Angeles 39; W. J. Purdy, 312 Seventh St., San Francisco 3.

SIMPSON MFG. CO., INC., MARK, 32-28 49th St., Long Island City 3, N. Y.—Eddie Colman & Assoc., 1503 S. Maple Ave., Los Angeles 15; Bernard Cahn & Co., 420 Market St. San Francisco 11; Thomas J. Dugan, 605 N. Yaleton, West Covina, Calif.

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SIMS CO., INC., Erie, Pa.—S. C. Pardee, 55 New Montgomery, San Francisco.

SIRENO SIGNAL MFG. CO., 65 Passaic Ave., Kearny, N. J.—E. L. Buckley Co., 986 Harrison St., San Francisco; Ballou & Wright, 327 N.W. 10th Ave., Portland, and 1513 12th St., Seattle; AAA Fire Extinguisher Equip. Co., Phoenix; Spitzer Elec. Co., Albuquerque.

SKIL CORP., 5033 Elston, Chicago 30, Ill.—Branch Offices: 2730 S. Broadway, Los Angeles; 285 S. Van Ness Ave., San Francisco; 818 John St., Seattle; 524 N. W. 6th Ave., Portland; N. 2226 Division St., Spokane; 4462 York St., Denver.

SKINNER ELECTRIC VALVE DIV., 95 Edgewood Ave., New Britain, Conn.—Western Control Equip. Co., 14615 Ventura Blvd., Sherman Oaks, Calif., and 3573 Pierce St., San Francisco 23, and 1400 N. 32nd St., Phoenix; Hydraulic & Air Equip. Co., 2316 N. W. Savier, Portland, and 2450 6th Ave., South, Seattle; Automatic Control & Equip. Co., Inc., 5750 Pecos St., Denver 21. Distributors: Haskel Eng. & Supply, 1236 S. Central Ave., Glendale 4, Calif.; The Rucker Co., 4700 San Pablo Ave., Oakland 8; Calif. Instrument Co., 351 Tenth Ave., San Francisco 3.

SLATER ELECTRIC & MFG. CO., INC., 45 Sea Cliff Ave., Glen Cove, Long Island, N. Y.—Payne & Sloan, 1101 East 5th St., Los Angeles 13; Bruce-Emmett Co., 830 S. E. Alder, Portland 14, 1016 First Ave., S., Seattle; The Baxter Co., 101 Kansas St., San Francisco; Don Steimkamp, 936 St. Paul St., Denver 6; Bruce-Emmett Co., 12103 East Booze St., Spokane and 410 Wall St., Salt Lake City.

SLEEVE-INS. CO., P.O. Box 1128, Vancouver, Wash. —Sold thru Jasper Blackburn Corp., St. Louis and Royal Electric Mfg. Co., Chicago.

SMITH CORP., A. O., Motor Div., Tipp City, Ohio—J. E. Edstrom, 1224 S.W. Morrison St., Portland.

SMITHCRAFT LIGHTING DIVISION, 217 Everett Ave., Chelsea 50, Mass.—Fred D. Benz Co., 520 4th St., San Francisco; J. R. Penning,, 2323 Second Ave., Seattle; C. A. Peterson Co., 784 E. 14th Pl., Los Angeles; John Elggren, 428 South West Temple, Salt Lake City; Easter-Owens Elec. Co., 610 S. Lipan St., Denver.

SMITH-GATES CORP., New Britain Ave., Farmington, Conn.—Ed B. Schack & Co., 2216 First Ave., Seattle 1; John Price and Assoc., 2402 North Seaman, El Monte, Calif.

SMOOT-HOLMAN CO., P. O. Box 4097, Inglewood, Calif.—Branch Office and Warehouse: 55 Mississippi St., San Francisco. Representatives: J. R. Christensen, 249 E. 5th South St., Salt Lake City 3; Carleton J. Bunce, 3664 Charles St., San Diego, Calif.; M. P. Fenton, 1331 "T" St. Sacramento; F. C. Scharr, 1500 Westlake Ave. North, Seattle 9; Clay Barton, 218 Builders Exchange Bldg., Portland 4; Gordon Laursen, 1116 Dartmouth N. E., Albuquerque; Norman Ross, 4227 N. Monte Vista, Scottsdale, Ariz. (See ad, p. 72)

SNAP-ON TOOL CORP., 8028 28th Ave., Kenosha, Wis.—2160 Clay St., Denver; 1717 West 6th St., Los Angeles; 2605 Market St., Oakland 7; 3229 E. Washington St., Phoenix; 1721 South Main St., Salt Lake City; 4503 8th Ave. N.W., Seattle, and 2402 Kalihi St., Honolulu 17.

SOAPSTONE DUCT CO., 3985 Beach Street, Oakland, Calif.—Maydwell & Hartzell, Inc., 870 Tennessee St., San Francisco 7, 427 W. Fifth St., Los Angeles 13, 5823 Henley Dr., San Diego, 120 South 29th St., Phoenix, 2318 N. W. Vaughn St., Portland 13, 803 W. Jackson St., Medford, 306 Dexter Ave., Seattle 9, 121 S. Monroe St., Spokane 8, 110 East 6th St., Tucson.

SO-CAL ELECTRO PRODUCTS, INC., 4423 W. Jefferson Blvd., Los Angeles, Calif.—Sold by Graybar Electric Co. in all principal cities; Alwalt Company, 1706 Lapham Dr., Modesto, Calif; Gough Industries, 819 E. First St., Los Angeles; Meyer Safety Switch Co., Inc., 423 Tehama St., San Francisco; Pajell Electric Supply Co., 1025 So. First St., Las Vegas, Nev.

SOLA ELECTRIC CO., Busse Road at Lunt, Elk Grove, Illinois—Northwestern Agencies, Inc., 4130 First Ave., South, Seattle 4; Marshall B. James, 2941 Northwest Quimby, Portland 10; Harry A. Moore Sales Co., 305 E. Indian School Rd., Phoenix; Ray J. Noel Co. Inc., 4315 So. Western Ave., Los Angeles 62; Slaybaugh & Thompson, 100 W. 13th Ave., Denver 4.

SOLAR ELECTRIC CORP., 121 Central Ave., Warren, Pa.—Cohn & Shane, Inc., 1323 Venice Blvd., Los Angeles. Branches at Denver Seattle, Portland, San Francisco, Phoenix and Honolulu, Hawaii.

SOLAR LIGHT MFG. CO., 400 N. Ashland Ave., Chicago 22, Ill.—Branch Office: 1849 Blake Ave., Los Angeles 8; C. A. Peterson Co., 784 E. 14th Place, Los Angeles 47; George M. Roth, 12910 S. E. Harold St., Portland 66; J. H. Stumph, 1000 Fourth Ave. South, Seattle.

SORENSEN & CO., INC., So. Norwalk, Conn.—McCarthy Assoc., in following cities: 635 Oak St., Menlo Park, 1055 E. Walnut, San Diego, 111 Orborn West, Phoenix; Lahana & Co., 1886 S. Broadway, Denver, 1332 Varden Way W., Salt Lake; Arva, 1238 N. W. Glisan, Portland, and 1320 Prospect, Seattle.

SORGEL ELECTRIC CO., 838 W. National Ave., Milwaukee, Wis.—Artwel Electric, Inc., 1485 Bayshore Blvd., San Francisco 24; W. E. Starr, 926 S. Atlantic Blvd., Los Angeles; Boyer & Seeley, Inc., 1196 Stout St., Denver 14; W. C. Osborn, P.O. Box 6506, Phoenix; Henry George Lehl, 14280 S. W. Upland Dr., Oswego, Ore. (See ad, p. 107)

SOUTHERN CAR & MFG. CO., P. O. Box 2312, Birmingham 1, Ala.—Earl S. Condon Co., 3450 Wilshire Blvd., Los Angeles; Slaybaugh & Thompson Co., 100 W. 13th Ave., Denver 4.

SOUTHERN ELECTRICAL CO., Metals Div. Olin Mathieson Chemical Corp., P. O. Box 989, Chattanooga, Tenn.—Roy E. Coulson Co., P. O. Box 9215, Phoenix; Hamilton Associates, 1236 Elati St., Denver 4; Garland-Affolter Engineering Corp. in following cities: 417 S. Hill St., Los Angeles, 58 Sutter St., San Francisco, 2603 Western, Seattle, and 1233 12th Ave., N. W., Portland. (See ad, p. 62)

SOUTHERN STATES EQUIPMENT CORP., Hampton, Georgia—Carl F. Selby, Western Reg. Mgr., P. O. Box 246, Lake Grove, Ore.; W. E. Kirk Co., 415 Wall St., Los Angeles 13; W. H. Eddy, P. O. Box 1428, Phoenix; John H. Ormond, 600 - 16th St., Oakland, Calif.; T. R. Van Wagoner, 1415 So. Main St., Salt Lake City; R. T. Lewis, 1301 Pierce St., Lakewood, Colo.; A. W. Graham, 113 Crescent Dr., Clovis, N. M. (See ad, p. 73)

SOUTHWEST MACHINE PLASTIC CO., 5419 McKinley Ave., Los Angeles 11, Calif.—W. D. Howze & Co., 5603 N. Figueroa, Los Angeles.

SOUTHWIRE COMPANY, Carrollton, Ga.—C. P. Crowley Co., 117 W. 9th St., Los Angeles 15; A. J. Nelson Co., 710 East Louisiana, Denver 19; P. O. Box 938, Albuquerque; P. O. Box 1871, Salt Lake City, and P. O. Box 13546, Phoenix; A. W. Graham, P. O. Box 69, Clovis, N. M.

SPANG-CHALFANT DIV., NATIONAL SUPPLY CO., 2 Gateway Center, Pittsburgh. (See National Supply Co., Tubular Products Div.)

SPANMASTER CRANE DIV., Jervis B. Webb Co., 9301 Reyo St., South Gate, Calif.

SPARLING METER CO., 225 N. Temple City Blvd., El Monte, Calif.—(See Hersey-Sparling.)

SPARTAN ELECTRIC RADIATOR CORP., 52-55 74th St., Maspeth 78, N. Y.—Arne Carson, 2207 47th Ave. S. W., Seattle; Robert Betette, World Trade Center, Ferry Bldg., San Francisco; Weldon Kite, 3190 S. Lowell Blvd., Denver 19; Sam Hexter Assoc., 2414 S. Santa Fe Ave., Los Angeles.

SPEEDEX MFG. CO., 400 S. Wyman St., Rockford, Ill.—H. Bailis, 851 Broadway, Denver 3; Dean MacDonald, 907 N. 67th St., Seattle; Cohn & Shane, Inc., 1323 Venice Blvd., Los Angeles; Syd Weinberg, 1721 E. Luke, Phoenix; Lory Fuchsmann, 1485 Bayshore Blvd., San Francisco; J. S. Morton and Arnold Goldstein, 1718 Broadway, Seattle; Sid Schieber, 1485 Bayshore Blvd., San Francisco.

SPEEDWAY MFG. CO., Div. of Thor Power Tool Co., 1421 Barnsdale Road, La Grange Park, Ill.—Thor Power Tool Co., 611 E. Pike St., Seattle 22; 315 S. Van Ness Ave., San Francisco 3; 6200 Slauson Ave., Los Angeles 22, and 2704 W. 8th Ave., Denver 4.

SPENCER THERMOSTAT CO., 34 Forest St., Attleboro, Mass.—(See Metals & Controls Corp.)

SPERO ELECTRIC CORP., 20500 St. Clair Ave., Cleveland 17, Ohio—Pete Bach, 1233 N.W. 12th Ave., Portland, Lyle Heaton, Bellevue, Wash.; Jim Shirreffs Co., 3601 S. Broadway Pl., Los Angeles; Hollis R. Johnson, 5528 Timberwolf Dr., El Paso; Western Associates, 128 E. Roosevelt, Phoenix; Arthur & Allen, 420 Market St., San Francisco 14.

SPERTI-FARADAY, INC., 1322 E. Church St., Adrian, Mich.—Wm. Benndorf, 221 Camelback Rd., Phoenix; Leonard Slusser, 318 Dooley Bldg., Salt Lake City 1; W. W. Wheat & Son, 2219 4th Ave., Seattle 4; Robert M. Schow, 1709 W. 8th St., Los Angeles 17; Gear Sales, 1223 Quivas St., Denver 4; Stanley Sales, 1122 Folsom, San Francisco.

SPRAGUE ELECTRIC CO., 149 Marshall St., North Adams, Mass.— George E. Honn Co. Inc., 560 Third St., San Francisco.

SPRAGUE ENGINEERING CORP., Vermont Ave. at Knox St., Covina, Calif.—Artwel Electric, Inc., 1485 Bayshore Blvd., San Francisco 24.

SPRING CITY ELECTRICAL MFG. CO., Hall & Main Sts., Spring City, Pa.—N. R. Schultz Co., 4227 Airport Way, Seattle 84; Murphy-Hain Co., 331 S. Mission Rd., Los Angeles 33 and 3009 Yonge St., Phoenix; P. O. Box 6506, San Diego 6; George E. Honn Co., 560 Third St., San Francisco 11.

STACKPOLE CARBON CO., Stackpole St., St. Marys, Pa.—Branch Offices: S. L. Spreggins Co., 16042 Ventural Blvd., Encino, Calif.; Eichorn & Melchoir, 932 Terminal Way, San Carlos; Burt Porter Co., 1209 Poplar Place, Seattle.

STANDARD CARBON CO., Box 49, Steubenville, Ohio —Roy Silverman, 1316 N. Laurel Ave., Los Angeles 46; Associated Carbon Prod., 207 W. Pico, Los Angeles, Calif.

SQUARE D COMPANY, Western Division, 4335 Valley Blvd., Los Angeles 32, Calif.—Branch Offices and also Factories: 4301 Valley Blvd., Los Angeles 32; 211 Industrial St., San Francisco 24; 830 Corwin Place, Seattle 44; 677 Alcott St., Denver 4; 765 Maywood Lane, Tacoma 46; 711 S. E. Ankeny St., Portland 14; West 933 Third Ave., Spokane 4; 800 48th St. South, Great Falls; 20 Sharon Court, Menlo Park; 1331 "T" Street, Sacramento; Room 30, 455 East 4th South, Salt Lake City; 3813 Mackland St., N. E., Albuquerque; 242 Ridgemont Way, El Paso; 2706 N. Main St., Riverside; 801 Bush St., Santa Ana; 449 Hope Ave., Santa Barbara; 801 Washington, San Diego. Sales Representatives: Alfred E. Linzer Co., 1507 Kapiolani Blvd., Honolulu; Electrical Equipment Co., Echo and Divisadero Sts., Fresno 1; Sun Valley Elect. Mfg. Co., 106 E. Buchanan, Phoenix; John P. Bagey Company, 611 11th St., Anchorage, Alaska.

STANDARD ELECTRIC EQUIPMENT, 100 Wilkins Ave., Port Chester, N. Y.—James G. Pope, Jr., 2720 S. San Pedro, Los Angeles.

STANDARD ELECTRICAL PRODUCTS CO., 2240 E. Third Street, Dayton 3, Ohio—Earl S. Condon Co., 1450 Wilshire Blvd., Los Angeles; Wallace and Wallace, 1206 Maple Ave., Los Angeles; Fred H. Height, 3212 Eastlake Ave., Seattle; Allen I. Williams, 2263 S. Albion St., Denver 22; David H. Ross, 534 El Camino Real, San Carlos, Calif.

STANDARD ELECTRIC TIME CO., THE, 113 Logan St., Springfield, Mass.—Branch Offices: 16 Beale St., San Francisco; 5405 Sheila St., Los Angeles; 664 Northlake Ave., Seattle; 4715 S.W. Macadam Ave., Portland, 1817 Silica Ave., Sacramento, 1721 E. Harrey St., Fresno; Automatic Control & Equip. Co., 5750 Pecos St., Denver; Electro Time & Control, 264 E. 1st South, Salt Lake City.

STANDARD INSTRUMENT CORP., Div. of Heat-Timer Corp., 657 Broadway, New York City 12—James L. Kearns Co., 6055 N. E. Glisan St., Portland; Burton Industrial Sales, 24463 Hawthorne Ave., Torrance, Calif.; Electronic Eng. Associates, 1295 Laurel St., San Carlos, Calif.

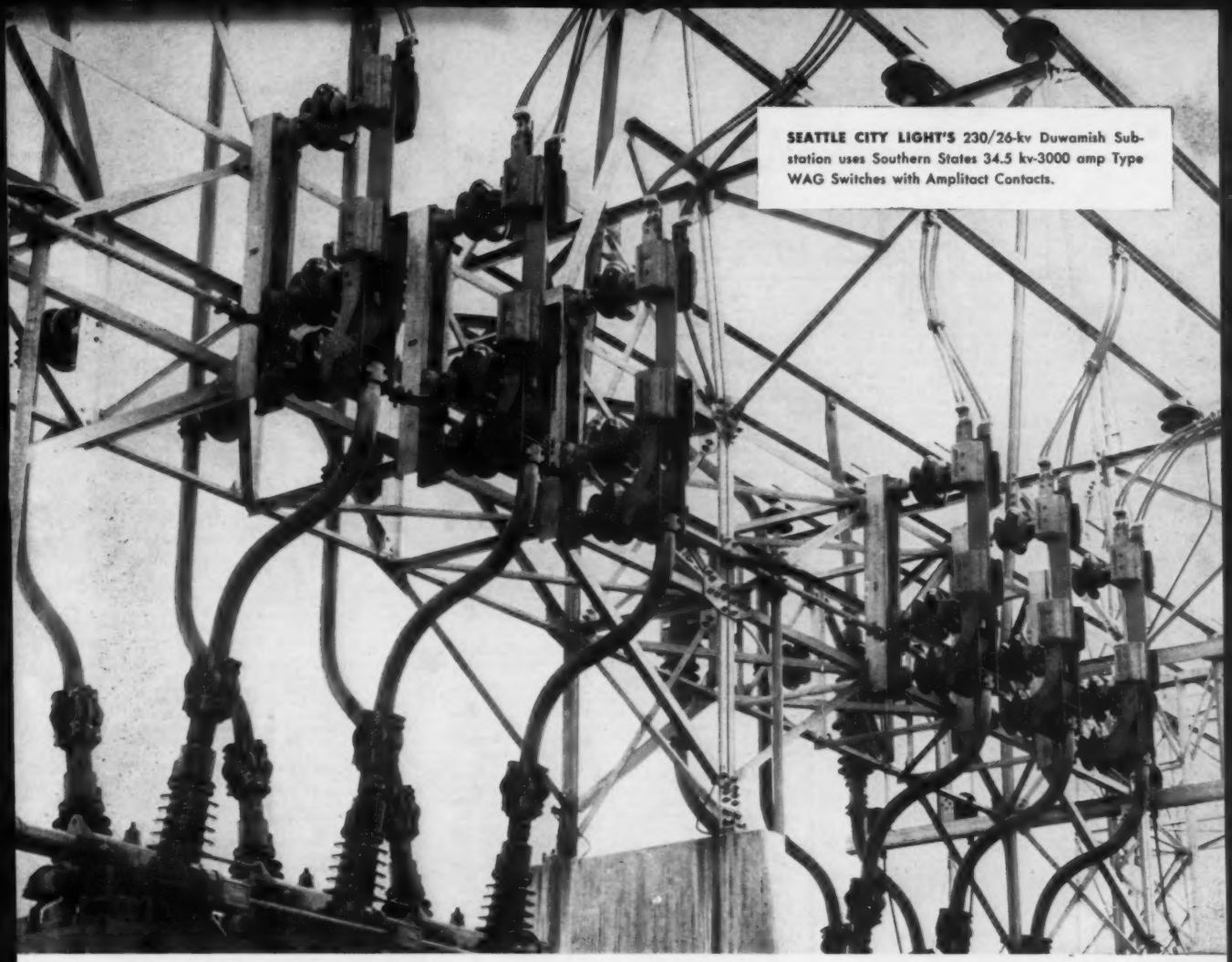
STANDARD OIL CO. OF CALIF., 200 Bush St., San Francisco, Calif.—Sales Offices: Oakland, Los Angeles, Long Beach, San Diego, Bakersfield, Sacramento, Fresno, Phoenix, Portland, Salt Lake City, Spokane and Seattle.

STANDARD TRAILER CO., 415 Park St., San Leandro, Calif.—Utility Body Co., 1530 Wood St., Oakland; Standard Auto Body Co., 4900 S. Soto St., Los Angeles.

STANDARD TRANSFORMER CO., 120 Dana St., N. E. Warren, Ohio—W. E. Kirk Co., 415 Wall St., Los Angeles 13; J. C. McDougall, 520 1st Ave. South, Seattle 4; A. J. Elggren & Sons, 428 S.W. Temple St., Salt Lake City 13; Mark G. Mueller Co., 1644 Blake St., Denver 2; J. H. Ormond Co., 600 16th St., Oakland 6; A & A Supply Co., 114 Morningside, Albuquerque.

STANDARD WIRE & CABLE CO., 3440 Overland Ave., Los Angeles, Calif.—Missile Supply Co., P. O. Box 207, Salt Lake City.

STANLEY ELECTRIC TOOLS, 480 Myrtle St., New Britain, Conn.—7141 S. Paramount Blvd. Rivera, Calif.; 105 Second Ave. N., Seattle; 681 Market St., San Francisco; 320 Valley Dr., Crocker Ind. Park, South San Francisco.



SEATTLE CITY LIGHT'S 230/26-kv Duwamish Substation uses Southern States 34.5 kv-3000 amp Type WAG Switches with Amplitact Contacts.

The Man-sized Switch for Man-sized Jobs

FIG. 1

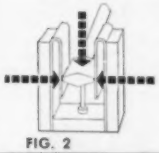


FIG. 2

AMPLITACT® CONTACTS ON WAG

High pressure Amplitact contacts provide maximum dependability under high current short-circuit conditions. The arrows in Fig. 1 show direction and relative magnitude of electromagnetic forces induced when switch is subjected to fault current.

The resultant electromagnetic forces, as shown in Fig. 2, greatly increase contact pressure and positively hold blade in the engaged position. For complete details, write for Bulletin 56AM on the Amplitact.

"Don't send a boy to do a man's job" is a saying especially applicable when choosing switchgear that must safely carry 3000-4000 amperes. Not only must it be capable of carrying such loads after years of service, but it may be called on to withstand fault currents up to 120,000 amperes without damage.

It's a man-sized job. Dirt, industrial waste, years of exposure to every type of contamination make the job even tougher. It takes a man-sized switch!

The Type WAG illustrated above is a good example. It's big and tough enough to carry its rated load continuously without excessive temperature rise. A built in safety factor more than compensates for the deteriorating effects of long, hard service. Amplitact® contacts provide high pressure for handling the heaviest faults.

The WAG is finding wider and wider acceptance in all ratings. It's now in service in virtually every state in the union.

Get complete details from your Southern States representatives or write direct for our latest bulletin.

LIVE BETTER ELECTRICALLY

SOUTHERN STATES
EQUIPMENT CORP.
HAMPTON, GEORGIA

IN CANADA: Dominion Cutout Co., Ltd., Toronto

(See listing sales offices page 72)

JIM SHIRREFFS CO.
3601 S. Broadway Place ADams 3-3248 Los Angeles 7
*KIRLIN COMPANY
KURT VERSEN COMPANY
LEADLIGHT FIXTURE DIV.
*RAY FITTING & BOLT CO.
*SPERO ELECTRIC CORPORATION
*APEXTRO QUARTZ-TUBE HEATERS
*SWAN "VECTRO-RAY" HEATERS
MAJOR EQUIPMENT CO., INC.
*Comprehensive stocks in our Warehouse

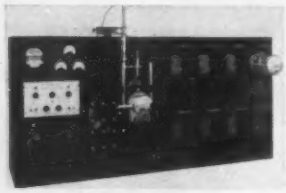
STANLEY MAGIC DOOR, Div. of The Stanley Works, 195 Lake St., New Britain, Conn.—Gamble-Hawkins Co., 1617 N.W. 14th Ave., Portland 9; The Hay Agency, 150 S. Doheny Dr., Beverly Hills; T. C. Stayner & Co., 2985 So. 2nd West, Salt Lake City 1; Builders Service, Inc., 1221 Bannock St., Denver 4; Hay Agency, 4129 E. Campbell, Phoenix; Bair's Hardware, 564 El Camino Real, Belmont, Calif.; Monroe Equipment Co., N. 715 Madelia, P. O. Box 4225, Spokane 31 and 1226 First Ave., South, Seattle 4.

STAR-A ELECTRIC MFG. CO., 269 Meserole St., Brooklyn, N. Y.—Collins-Gillette Co., 2501 Crestmont Place, Seattle and 13917 S. Fair Oakway, Portland; John Roth Co., 5500 E. 33rd, Denver; Western Associates, 128 E. Roosevelt, Phoenix; Ray Alexander, 480 Horrocks Dr., Blackfoot, Ida.

STAR EXPANSION INDUSTRIES CORP., Pleasant Hill Rd., Mountainville, N. Y.—Branch Offices: 1103 Airport Blvd., South San Francisco; 5821 E. Beverly Blvd., Los Angeles; 3048 N. 27th Ave., Phoenix; 4901 E. 38th Ave., Denver; 2215 Ranier Ave., Seattle.

STAR LIGHTING FIXTURE CO., Subsidiary of Thomas Industries, Inc.—(See Thomas Industries.)

METER TEST TABLES



Combination Demand and Watthour Meter Table. It's STATES for a full line of test tables.

THE STATES COMPANY
21 New Park Ave., Hartford, Conn.

STATES COMPANY, THE, 21 New Park Ave., Hartford, Conn.—Western Representatives: George E. Honn Co., 560 Third St., San Francisco; Arthur E. Booth Co., 265 S. Alexandria Ave., Los Angeles 4; Mountain States Machinery Co., 1526 Blake St., Denver; J. E. Redmond Co., 625 W. Madison St., Phoenix; F. W. Gorman, P. O. Box 223, El Paso; Conely Eng. Co., 165 South 1st West St., Salt Lake City; Andrew L. Polich, Inc., 734 N.W. Glisan St., Portland; Honolulu Elec. Prod. Co. Ltd., Honolulu, Hawaii. (See ad, p. 74)

STATE WIRE AND CABLE CORP., S. River St., Coxsackie, N. Y.—Pete Bach Electric, 1233 N. W. 12th Ave., Portland 9.

STA-TITE MFG. CO., 2000 Wyandotte, Kansas City, Mo.—James C. Pope, Jr., 2720 S. San Pedro St., Los Angeles; Jim Dawson Co., 661 Delaware St., Denver. (See ad, p. 74)

STA-WARM ELECTRIC CO., 503 N. Chestnut St., Ravenna, Ohio—Montgomery Brothers Inc. in following cities: 1122 Howard St., San Francisco, 911 Western Ave., Seattle, 4800 District Blvd., Los Angeles, 1632 N.W. Johnson, Portland, and 5103 N. Hawthorne, Spokane; E & M Equipment Co., 2415 15th St., Denver.

STEARNS MAGNETIC PRODUCTS, 635 S. 28th St., Milwaukee, Wis.—L. F. Hoag, National Equip. Co., 35 E. Pierson, Phoenix; Willard Eng. Co., 2709 S. Hill St., Los Angeles; Transmission Eng. Co., 427 Bryant St., San Francisco; Schloss & Shubart, 1626 Wazee St., Denver; John H. Marvin Co., 422 1st Ave. W., Seattle, and 6106 N. W. 18th Ave., Portland; National Equip. Co., 101 W. Second St., Salt Lake City.

STEBER MFG. CO., 2700 Roosevelt Road, Broadview, Ill.—Hodges & Glomb, 921 Bryant St. San Francisco 3; Murphy-Hain Co., 331 So. Mission Road, Los Angeles; Northwestern Agencies, 4130 First Ave. South, Seattle 4; Allen B. Carpenter Co., 1314 Wazee St., Denver 4; Marshall James, 2941 N.W. Quimby, Portland; International Exporters Corp., 301 S. Howard Blvd., Los Angeles 5 (Export).

STEEL CITY ELECTRIC CO., 1207 Columbus Ave., Pittsburgh, Pa.—Hodges & Glomb, 921 Bryant St., San Francisco 3; Murphy-Hain Co., 333 Mission Road, Los Angeles; Northwestern Agencies, 4130 First Ave., South, Seattle 4; Fred E. Staible & Sons, 2046 Arapahoe St., Denver 2.

STEELDUCT CO., 335 Market, Youngstown, Ohio—Kenneth Anderson Co. in following cities: 123 S. Myer St., Los Angeles; 422 S. 7th Ave., Phoenix; 3525 5th Ave., San Diego and 801 No. Bush St., Santa Ana; F. M. Nicholas Co., 72 Townsend St., San Francisco; L. S. Reed & Co., 1018 Lawrence St., Denver; Smith & Thomas Co., 5417 E. Marginal Way, Seattle and 5202 N.E. 73rd, Portland, The Darger Co., 211 S. Second West, Salt Lake City.

STEEL & TUBES DIV., Republic Steel Corp. (See Republic Steel Corp.)

STEMCO MFG. CO., 4275 Forrest, Denver, Colo.—Through electrical and plumbing wholesalers.

STEMM BROS., INC., 14th and Commercial, Leavenworth, Wash.—Nelson Equipment Co., 5251 McLoughlin Blvd., Portland; Stanco Mfg. & Sales, 1931 Pontius Ave., Los Angeles; Stratton Equipment, Ltd., 1305 W. Georgia St., Vancouver 5 B. C. Export only.

STEPHENS-ADAMSON MFG. CO., 274 Ridgeway Ave., Aurora, Ill.—Branch Offices: 2227 E. 37th St., Los Angeles; 145 Mission St., San Francisco; 709 Jos. Vance Bldg., Seattle; 73 S. Main St., Salt Lake City, and Suite 2-B, 1625 E. Camelback Rd. Phoenix.

STEPHENS MFG. CO., M., INC., 814 E. 29th St., Los Angeles, Calif.—The McLoughlin Co., 811 E. 14th Place, Los Angeles, 3147 N. 7th Ave., Phoenix Keeler-White Co., 523 N.W. Everett St., Portland and 1041 Sixth Ave. So., Seattle; Stanley Sales Corp., 1122 Folsom St., San Francisco 3; Rocky Mountain Elec. Sales, 16 Wazee Market, Denver 2; Leonard M. Slusser, 318 Dooly Block, Salt Lake City.

STERLING ELECTRIC MOTORS, INC., 5401 Telegraph Road, Los Angeles 22, Calif.—District Office: R. L Hadley, 383 Brannan St., San Francisco; Edward A. Hurley, 1712 First Ave. South, Seattle; C. C Conley, Mgr., 738 N. W. Glisan St., Portland; O M. MacNaMe, 5401 Telegraph Rd, Los Angeles Reps.: F. E. Crossman, 806 Beach Ave., Vancouver B. C., Canada; John W. Reynolds, 1481 S. Main St., Salt Lake City; Clyde P. Elliott, 661 Delaware St., Denver 4.

STERLING TRANSFORMER, 299 N. Seventh St., Brooklyn, N.Y.—Bernard Cahn Co., 420 Market St., San Francisco.

QUALITY ATTACHMENT PLUG CAPS
Individually carded for easy selling in self-service stores
Also packed bulk or boxed for counter or shelf
Famous for Dependability
Write for complete information
THE STA-TITE MFG. CO.
2000 Wyandotte
Kansas City 8, Mo.

STERLING VARNISH CO., Haysville Borough, Sewickley, Pa.—Western Fiberglas Co., 739 Bryant St., San Francisco 7; 4423 Fruitland Ave., Los Angeles 58, and 1915 First Ave. So., Seattle 4; Zork Hardware, El Paso, Texas.

STERNER INDUSTRIES, Winsted, Minn.—Muth Richards, 1804 Bush St., Seattle; M. J. Hooey, 3875 Magnolia Dr., Palo Alto, Calif.; C. A. Peterson Co., 5757 Huntington Dr., No., Los Angeles 32.

STEVENS MFG. CO., INC., P. O. Box 1007, Mansfield, Ohio—Paul H. Potter & Associates, 2390 Foothill Blvd., Pasadena, Calif.

STEWART STAMPING CO., 630 Central Park Ave., Yonkers 4, N. Y.—Heim & Scheer, 11168 Santa Monica Blvd., Los Angeles 25.

STEWART TRAINOR, Tulsa, Okla.—Don Congdon Co., 1530 Dover Suite 9, Lakewood, Colo.

STICHT CO., INC., HERMAN H., 27 Park Place, New York City—James L. Kearns Co., 6055 N. E. Glisan St., Portland 16; T. R. Routh Co., 1209 Capuchino Ave., Burlingame, Calif.; The Kennematt Co., 14637 Bessemer St., Van Nuys, Calif.

STONCO ELECTRIC PRODUCTS CO., 333 Monroe Ave., Kenilworth. N. J.—The McLoughlin Co., 811 E. 14th Pl., Los Angeles; Bruce-Emmett Co., 830 S. E. Alder, Portland; Sid Yenter, 12103 E. Boone, Spokane; W. T. R. Saari, 1016 1st Ave. S., Seattle; Max D. White, 410 Wall St., Salt Lake City; R. D. Florance & Assoc., 2052 Humboldt St., Denver; Stanley Sales Corp., 1122 Folsom St., San Francisco.

STROMBERG-CARLSON, Div. of General Dynamics Corp., Special Products Div., 1400 N. Goodman, Rochester, N. Y.—Branch: 2231 S. Barrington St., Los Angeles; Lloyd Marsh Agencies, 2601 First St., Seattle.

STROMBERG TIME CORP., 135 S. Main St., Thomaston, Conn.—Branches: 420 Market St., San Francisco 11, and 659 S. LaBrea Ave., Los Angeles 36. Exclusive Dealers: Eicher & Co., 5 W. Harrison, Seattle 99; E. L. Taylor, 2011 Glenarm St., Denver; Controls Eng. & Dist., Inc., 1150 East 5th South, Salt Lake City 10; New Mexico Sound Specialties, 3418 Lomas Blvd., N. E., Albuquerque; Northern School Supply, Great Falls, Mont.; Kelton Audio Equipment, 808 N. First St., Phoenix; Time and Sound Co., 2706 Main St., Riverside, Calif.

STRUTHERS-DUNN, INC., Lamb's Road, Pitman, N. J.—A. W. Nash Co., 2112 S. Atlantic Blvd., Los Angeles; Eicher & Co., 5 West Harrison St., Seattle; Eichorn & Melchoir, 932 Terminal Way, San Carlos, Calif.; Western Electro Mechanical, 300 Broadway, Oakland; Vinson Associates, 296 Tucker Bldg., Englewood, Colo.

STRYCO MFG. CO., 470 Natoma St., San Francisco 3—Call Equipment, Inc., 119 E. Valley Blvd., San Gabriel, Calif.; West Coast Machinery, 2707 1st Ave. So., Seattle; Montauge-Harris, 893 Folsom St., San Francisco; Victor Equipment Co., 844 Folsom St., San Francisco; Arizona Welding Equip. Co., 415 So. 7th St., Phoenix; Portland Machinery Co., 208 So. West 1st Ave., Portland 4; Honolulu Iron Works, 570 Auahi, Honolulu, Hawaii.

STURDY LANTERN MFG. CO., INC., 41 "P" St., South Boston Mass.—John C. Kerr, 576 Morega Highway, Orinda, Calif.

SUBOX, INC., Foot of Lawton, Hackensack, N. J.—Wrathall & Krusi, 1044 Monadnock Building, San Francisco; R. E. Cunningham & Son, 530 West 6th St., Los Angeles; William J. Cottrell and Associates, 4000 S. W. Macadam Ave., Portland 1; Ambler Co., 500 Klamath St., Denver 1; Carlson Sales, Inc., 1201 Dexter Ave., Seattle 9 and 604 Utah Ave., Butte, Mont. (See ad, p. 55)

SUFLEX CORP., 33-40 57th St., Woodside 77, New York—Tri-State Supply Corp., 544 S. San Pedro St., Los Angeles; 554 Bryant St., San Francisco, and 325 Westlake Ave., North, Seattle.

SUNBEAM LIGHTING CO., 777 E. 14th Place, Los Angeles, Calif.—Humber & Walker Co., 314 12th St., San Francisco 3; Robert E. Jones, 444 Dexter-Horton Bldg., Seattle 4; McGillan Sales Co., Box 4013, 1100 Hermosa Dr. S.E., Albuquerque; John Schulter, 411 Weatherly Bldg., Portland; David M. Merrill, 192 N. First East, Box 573, Farmington, Utah; Anson Boyd, 4141 La Gunita Court, Sacramento, Calif.; Jack Murphy, 1901 4th Ave., San Diego; Wilson C. Osborn, 7116 No. 13th, Phoenix.

SUNRAY ELECTRIC CORP., Warren, Pa., (See Interelectric Co.)

SUNSHINE SCIENTIFIC INSTRUMENT, 1810 Grant Ave., Philadelphia 15, Pa.—Wm. J. Cottrell & Assoc., 4000 S. W. Macadam Ave., Portland 1; D. B. Cole & Co., 557 E. Walnut St., Pasadena, Calif.; Instruments for Measurements, 251 S. Murphy Ave., Sunnyvale, Calif.

SUNWARM, INC., 1601 Jared Drive, Kingsport, Tenn.—Vic Paul Co., 5140 N.W. Hoyt St., Portland; Frank H. Bran Co., 607 E. 6th St., Los Angeles; Evan Sales, Inc., 122 Social Hall Ave., Salt Lake City.

SUPER TOOL CO., 21650 Hoover Road, Detroit, Mich.—Branch: 5210 San Fernando Road, Glendale 5, Calif.

SUPERIOR CABLE CORP., P. O. Box 480-A, Hickory, N. C.—Maydwell & Hartzell, Inc., in the following cities: 870 Tennessee St., San Francisco 7; 427 W. 5th St., Los Angeles 13; 5823 Henley Dr., San Diego; 120 S. 29th St., Phoenix; 2318 N. W. Vaughn St., Portland; 803 W. Jackson St., Medford; 306 Dexter Ave., Seattle 9; 121 S. Monroe St., Spokane, and 110 E. 6th St., Tucson.

SUPERIOR CARBON PRODUCTS, INC., 9115 George Ave., Cleveland, Ohio—The A. W. Nash Co., 2112 S. Atlantic Blvd., Los Angeles 22.

SUPERIOR ELECTRIC CO., 83 Laurel, Bristol, Conn.—Branch Offices: 14663 Titus St., Van Nuys; 2881 El Camino Real, Redwood City; 810 3rd Ave., Seattle.

SUPERIOR INSULATING TAPE CO., 3100 Lambdin Ave., St. Louis 15, Mo.—The Baxter Co., 101 Kansas St., San Francisco; Roy J. O'Donnell Co., 2256 So. Delaware St., Denver; Elkins Elec. Agency, 235 S. Alameda St., Los Angeles 12; R. W. Rieder Co., P.O. Box 4947, Portland 13 and P. O. Box 7162, Seattle.

SUPERIOR PORCELAIN CO., 931½ Market St., Parkersburg, West Va.—Eckert-Lloyd Co., 1950 Naomi Ave., Los Angeles; Seattle Insulator Supply, 1963 First Ave. So., Seattle; Thomas D. Noble Co., 210 12th St., San Francisco.

SUPERIOR SWITCHBOARD & DEVICES CO., 410 Schroyer S. W., Canton, Ohio—T. S. Wood, 220 9th Ave. N., Seattle; L. A. Nott, 1061 Howard St., San Francisco; Carlos W. Stone, 2003 Parley's Blvd., Salt Lake City; Franklin Sales Co., 2149 Co. Clermont Ave., Denver; Electric Locator & Sales, 8045 Bellamah Ave., N.E., Albuquerque.

SUPREME LIGHTING CO., 600 E. Turner, Los Angeles, Calif.—The Sanderlin Co., 129 First Ave. W., Seattle 99, and 56 S. E. Belmont, Portland; Mel Long, 422 S. 7ht St., Phoenix; Bach Associates, 155 Jackson St., Denver 6.

SUPRO LUX MFG. CO., INC., 406 E. 161st St., New York City 51—Montroy Electrical Supply Co., 4165 Beverly Blvd., Los Angeles; Peterson Supply Co., 20 N. E. 20th Ave., Portland, and 480 Fifth St., San Francisco.

SURETY RUBBER CO., N. High St., Carrollton, Ohio—Branch Office: H. A. McIntosh, 3030 Bridgeway Blvd., Sausalito, Calif.; Best Linemen's Supply Corp., 541 First Ave. South, Seattle; Brenton Equip., 374 Brannan St., San Francisco.

SUSANNE IDEAL LIGHTING, INC., 1515 Gentry St., No. Kansas City, Mo.—Fred Stone, 24 Manzanita, San Francisco; Merwin Altfeld, 3038 Overland Ave., Los Angeles; Ray Alexander, 480 Horrocks Dr., Blackfoot, Idaho; Jack Finkelstein, 128 E. Roosevelt, Phoenix; Mrs. Esther Adams, Box 7062, Phoenix; Ernie Massman, Columbia Falls, Mont.

SUTTLE EQUIPMENT CO., 135 S. LaSalle St., Chicago 3—Graybar Electric Co., all principal cities; Leich Sales Corp., 11401 W. Pico Blvd., Los Angeles 64; ITT Kellogg, 23 Broderick Road, Burlingame, Calfl.; Automatic Elec. Sales Corp., 2360 N. W. Quimby St., Portland 10; Stromberg-Carlson Co., 1805 Rollins Rd., Burlingame; Telectric Co., 1218 Vencie Blvd., Los Angeles; McMullan Sales, P. O. Box 667, Scottsdale, Ariz.; Audio Visual Center; 1022 No. Park Ave., Tucson, Ariz.; Western Sound, 17544 Ventura Blvd., Encino, Calif.; Douglas Roesch Comm., 1832 S. Flower St., Los Angeles 15; Malcolm Ross & Co., 1623 So. LaCienega Blvd., Los Angeles 35; Foster-Barker Co., 408 W. Fourth St., Santa Ana; Lier Radio & Music, 542 "E" St., San Bernardino.

SWAN MFG. CO., 1801 W. 26th St., Vancouver, Wash.—Jim Shirreffs Co., 3601 S. Broadway Place, Los Angeles 7; Norton Wholesale, Los Angeles; Main Electric Supply, Los Angeles; Orange County Wholesale, Santa Ana; Western State Electric, San Diego; Jobbers Electric, Santa Rosa; L. A. Nott & Son, San Francisco; Electrical Suppliers, Inc., Fresno; Phillips & Edwards, Stockton; Pacific Wholesale Electric, San Diego; Coast Electric, San Diego; Inglewood Wholesale Electric, Inglewood; Solar Electric, Pocatello, Ida.; Hub Electric, Missoula, Mont.; Car Sales Co., Spokane and Clarkston, Wash., and Pendleton, Ore.; Columbia Electric, Seattle, Stusser Electric, Seattle, Yakima, Bellevue and Mt. Vernon; Home Electric, Tacoma; Miller Supply, Inc., Walla Walla; Wells and Wade, Wenatchee; Portland Electric & Plumbing, Portland; The Sloan Co., Medford; Wespac Distributors, Eugene; Inland Electric Co., Inc., Spokane.

SWARTOUT CO., 18511 Euclid Ave., Cleveland 12, Ohio—Williams Equip. & Controls, 204 Dooly Bldg., Salt Lake City.

SWIVELIER CO., INC., 30 Irving Place, New York 3, N. Y.—Thru Electrical Wholesalers.

SYLVANIA ELECTRIC PRODUCTS, INC., 1740 Broadway, New York City 19, N. Y.—Western Regional Offices: 1811 Adrian Road, Burlingame, Calif.; R. C. Harper, Pacific Coast Director of Sales. Branch Offices: 6505 E. Gayhart St., Los Angeles; 428 S. Main St., Salt Lake City; 3466 E. Marginal Way, Seattle; 4700 East 48th Ave., Denver 16.

SYNTHANE CORP., 15 River Road, Oaks, Pa.—Pacific Electric Sales, 140 S.E. 28th Ave., Portland 14.

SYNTRON CO., Homer City, Pa.—Syntron Sales Co. in following cities: 8413 State St., Los Angeles; 59 30th St., San Francisco 10; 430 S.E. 33rd Ave., Portland; 15223 8th Ave. S., Seattle 88; 713 Kensington Ave., Salt Lake City 1; Krippner & Polley, 1166 Elati St., Denver; R. W. Bartley, 2144 N. Campbell Ave., Tucson.

SYSTEM ANALYZER CORP., 700 West State St., Nokomis, Ill.—Graybar Electric Co., Inc., Westinghouse Electric Supply, General Elec. Supply all principal cities; Joseph F. Taraba Co., 1824 S. E. 50th Ave., Portland; McCarthy-Hood Co., 1485 Bayshore Blvd., San Francisco; J. W. Reynolds Co., 1479 S. Main, Salt Lake City; Robert C. Hull, 36 Cedar Dr., Roswell, N. M.; Mt. States Industries, 3262 Wolff, Denver; Matlock's Irrigation, 1221 4th Ave., N., Billings, Mont.; Barney H. Hartley, Box 4381, Phoenix; Montana Merc. 1600 Harker Ave., Missoula, Mont.; Folsom Co. Inc., 1130 W. Broadway, Missoula, Mont.; Harold D. Kroh, 836 Ocean View Dr., Honolulu, Hawaii.

TACA CABLE STRIPPER, INC., 1313 N. Mission Road, Los Angeles, Calif.—Western Electric Co., 800 McGarry St., Los Angeles; Kellogg Switchboard Co., 1663 Mission St., San Francisco; Graybar Electric Co., Inc., 210 Anderson St., Los Angeles 54; Leich Sales, 11401 W. Pico Blvd., Los Angeles 64; Western Hardware & Tool Co., 122 10th St., San Francisco.

TACO HEATERS, INC., 1160 Cranston St., Cranston 9, R. I.—Koran Co., 106 Beeson Bldg., Edmonds, Wash.; Ed Lokay, 10338 N. E. Sandy Blvd., Portland; Hank Wrigley, Jr., 3344 Leonis Blvd., Los Angeles; Clyde Co., 920 Grayson St., Berkeley.

TAKK CORPORATION, Newark, Ohio—Ed Ottsman & Son, 536 Sansome St., San Francisco; E. G. Paules, 1762 W. Vernon Ave., Los Angeles.

TAL BENDING EQUIPMENT, INC., 417 N. Water St., Milwaukee, Wis.—(See Hein-Warner Corp.)

TALK-A-PHONE CO., 1512 S. Pulaski Rd., Chicago, Ill.—M. D. Ealy Co., P. O. Box 238, Northridge, Calif.; F. W. Moulthrop Co., 575 10th St., San Francisco; A. J. Nelson Co., 710 Louisiana St., Denver; Richard Legg Co., 1633 N.W. 21st Ave., Portland.

TALIMAN CONDUIT CO., Louisiana, Mo.—Matzinger-Johnson Co., 1320 Willow St., Los Angeles 13.

TAP-A-LINE MFG. CO., 31 S. W. 5th Court, Pompano Beach, Fla.—Heeger, Inc., 2528 W. 9th St., Los Angeles.

TAPECOAT CO., 1521-23 Lyons St., Evanston, Ill.—Tay-Holbrook, Inc., 165 8th St., San Francisco 1; Richard Backman, 1332 Westminster Ave., Salt Lake City; Roger K. Butz, 557 E. Walnut St., Pasadena, Calif.

TAPE CABLE CORP., 790 Linden Ave., Rochester, N. Y.—Western Control Equip. Co., 14615 Ventura Blvd., Sherman Oaks, and 1400 North 32nd St., Phoenix; Long & Associates, Brewster-Warren (Sts.) Bldg., Redwood City.

TAPER TUBE POLE CO., Monadnock Bldg., San Francisco, Calif.

TAR HEEL MICA CO., Plumtree, N. C. — Electrical Specialty Co., 158 Eleventh St., San Francisco; 1101 Sout St., Denver 2; 2820 East 12th St., Seattle; 1822 N.W. 25th Ave., Portland; 2026 Arapahoe, Denver 5, 210 W. Adams, Phoenix, and 2442 First Ave. So., Seattle 4.

TARVER RADIO MFG. CO., P. O. Box 1062, Lubbock, Tex.—Guy de Leuze Co., 1923 Bryant St., San Francisco; Jim Shirreffs Co., 3601 So. Broadway Place, Los Angeles 19; Bernstein & Co., 39 W. Adams, Phoenix.

TAYLOR CEILINGS, 1535 Marshall St., Redwood City, Calif.

TAYLOR ELECTRIC, INC., 15400 Dale, Detroit, Mich.—K. M. Ryals Co., 9 First St., San Francisco; Calrepco, 1417 Georgia St., Los Angeles 15; Wm. A. Matzke Co. 809-A Terminal Sales Bldg., Seattle 1.

TAYLOR FIBRE CO., P. O. Box 99, LaVerne, Calif.

TAYLOR-WINFIELD CORP., 1052 Mahoning, N. W., Warren, Ohio—Denton & Anderson, 5526 N. Rosemead Blvd., Temple City, Calif.; Industrial Specialties, 940 S. E. 7th Ave., Portland; Johnson Supply Co., 1123 Wazee St., Denver.

TECHBESTOS WIRE CO.—W. B. Imholt Co., 275 Brannan St., San Francisco.

TECHNICAL DEVICES CO., 11242 Playa Court, Culver City, Calif.—Ray Johnston Co., 1011 East 69 St., Seattle 15; Weightman & Associates, 4029 Burbank Blvd., Burbank, Calif. and 1436 El Camino Real, Menlo Park, Calif.; C. F. L. Co., 1871 South Broadway, Denver 10.

TELECOM, INC., 1019 Admiral Blvd., Kansas City, Mo.—Syd Jurin Co., 4853 Oakwood Ave., Los Angeles 4; Wm. Kolans & Co., 3589 20th St., San Francisco; Dale G. Weber Co., 234 Sherlock Bldg., Portland; Peyser & Co., 1501 No. Weber St., Colorado Springs, Colo.

TELEJAC CO.—El Monte, Calif.—Payne & Cloan, Inc., 1101 E. 5th St., Los Angeles; Stanley Sales, 1122 Folsom St., San Francisco; Sanderlin Co., 129 First Ave. West, Seattle and 56 S.E. Belmont, Portland; Gordon W. Laursen, 1116 Dartmouth Dr., N.E., Albuquerque, N. M.; John W. Reynolds Co., 375 Andrew Ave., Salt Lake City; Eastern-Owens Elec. Co., 610 S. Lipan St., Denver.

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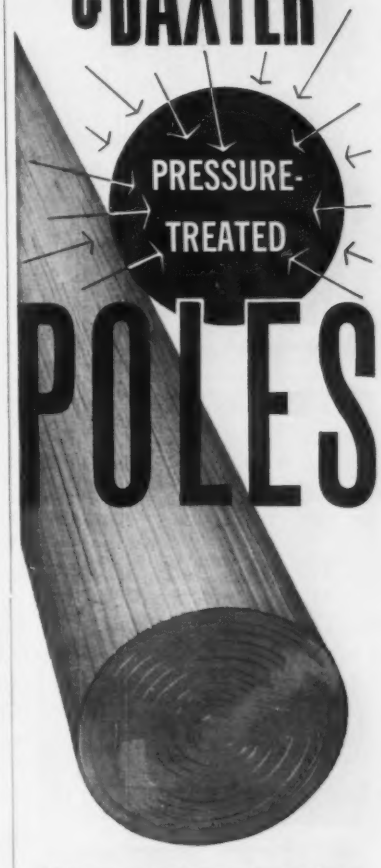

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"There was a performance test on Pilot Model (Jaques Earth Auger), Model KJ-254, built by Texoma Enterprises, Inc. This test performed in accordance with Military Specification Mil-A-516B, paragraph 3.9 through 3.9.2.

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TELSTA CORP., 2900 Spring St., Redwood City, Calif.

TEMPIL CORP., 132 W. 22nd St., New York 11—Balaam Bros. Welding Supplies, 1421 Park Ave., Emeryville; Braun Chemical Co., 1363 S. Bonnie Beach Pl., Los Angeles; Braun-Knecht-Heimann Co., 1400 16th St., San Francisco; Scientific Supplies Co., 600 Spokane St., Seattle, and 713 S. W. 12th Ave., Portland. Sold through leading distributors in all principal cities.

TEMPLETON, KENLY & CO., Gardner and 16th, Broadview, Ill.—Branch Office: 1635 E. 22nd St., Los Angeles 11, Mr. Wm. S. Pine, Mgr.; William Zepp, 720 Bancroft Rd., Concord, Calif.; Graybar Electric Co. and Westinghouse Electric Supply, all principal cities.

TENNESSEE PLASTICS, INC., Johnson City, Tenn.—Ed B. Schack & Co., 2218 1st Ave., Seattle; The Baxter Co., 101 Kansas St., San Francisco.

TENSOLITE INSULATED WIRE CO., INC., West Main St., Tarrytown, N. Y.—Branch: 1516 N. Gardner St., Los Angeles; G. S. Marshall Co., 2065 Huntington Dr., San Marino, 30 Pima Plaza, Scottsdale, Ariz., 3525 Fifth Ave., San Diego, 801 Woodside Rd., Redwood City; M. K. Widdekind Co., 222 1st Ave. North, Seattle; C. F. L. Co., 1871 So. Broadway, Denver 10; Dougherty Enterprises, 149 Kaimi St., Kailua, Hawaii.

TERMITE DRILLS, INC., 99 N. Lotus Ave., Pasadena, Calif.—Roy J. Holsclaw, 2820 Grape St., Denver; W. A. Hutchings, 6536 37th Ave. N. E., Seattle 15; Noble Sales, 695 Howard St., San Francisco 5.

TEVCO INSULATED WIRE CO., 108 E. Prospect Ave., Burbank, Calif.—Guy de Leuze Co., 1923 Bryant St., San Francisco; Robert Bach Associates, 191 Oneida, Denver 5; Richard Legg Co., 1633 N.W. 21st Ave., Portland.

TEXAS INSTRUMENTS, INC., Metals & Controls, 34 Forest, Attleboro, Mass.—Factory: West Coast Engineering Facilities, Burbank, Calif. Branch: 201 Town & Country Village, Palo Alto, Calif., and 232 N. Lake Ave., Room 211, Pasadena, Calif. Klixon Parts Distributors: Arrowhead Elec. Corp., 5979 S. Figuero, Los Angeles 3; L. L. Burror Co., 1126 Eighth Ave., Oakland 6; Center Electric Eng. Corp., 1501 Center St., Tacoma and Seattle; C. E. Riggs, Inc., 317 N.W. Broadway, Portland 9.

TEXAS WIRE & CABLE CO., 910 Tenth St., Plano, Tex.—Arthur E. Bacon, 1240 S. Elizabeth, Denver; Electric & Locator & Sales Co., 3921 Delamar N. E., Albuquerque.

TEXOMA ENTERPRISES, INC., P. O. Box 272, Sherman, Tex.—Industrial Engineering & Equip. Corp., 2975 Wilshire Blvd., Los Angeles; Western Power Products, 2765 N. W. Nicolai St., Portland, and 4449 Stanford, Seattle; Smith Sales Co., P. O. Box 1461, Albuquerque, N. M. (See ad, p. 76)

THEILER CORP., H. J., 22 Ashmont Ave., Whitinsville, Mass.—Matzinger-Johnson Co., 1329 Willow St., Los Angeles 13; Neil Winikoff, 7554 44th, N. E., Seattle 15.

TEXSTEAM CORP.—Belilove Co., 420 Market St., San Francisco.

THERMADOR ELECTRIC MFG. CO., A. A. Calio, Los Angeles Dist. Mgr., 5119 District Blvd., Los Angeles, Calif.—Don Odom, Reg. Mgr., 556 20th St., Oakland 12; John L. Mooney, 1916 La Corta, Lemon Grove, Calif.; R. O. Alexander, 5119 District Blvd., Los Angeles 22, Calif.; W. G. Cline, 4500 Kalamath St., Denver 11; Glenn A. Erbes, 1400 Horseshoe Curve, Oswego, Ore.; Walter R. Bills, 211 S. 2nd W., Salt Lake City; Klayton Chapman, Mgr., 5125 Greenwood Ave., Seattle 3; Herbert A. Whitney, N. 4610 Ash, Spokane 13; Ed J. Dold, P. O. Box 735, Dixon, Calif.; G. J. Warnshuis, 4832 N. Effie St., Fresno, Calif.

THERMO ELECTRIC MFG. CO.—(See Thermolyne Corp., Formerly Thermo Elec. Mfg. Co.)

THERMO TANK, INC., 26210 Harper Ave., St. Clair Shores, Mich.—R. C. English & Associates, 4229 122nd Ave. S. E., Bellevue, Wash., and Builders Exchange Bldg., Portland.

THIEL TOOL & ENGINEERING CO., 1417 N. Market St., St. Louis 6, Mo.—M. Levin, 205 N.W. 10th, Portland; Gordon W. Laursen & Son, 1116 Dartmouth Dr. N. E., Albuquerque; Keeler-White Co., 615 Seventh St., San Francisco 3; Heyjax Co., 436 Colyton, Los Angeles 13.

THOMAS & BETTS CO., 36 Butler St., Elizabeth, N. J.—Branch Offices: Howard C. Johnson, 145 S. Anderson St., Los Angeles 54; Donald J. Frear, 645 Phelp St., San Francisco 24; Frank Strohecker, 2207 First Ave. So., Seattle 4; Randolph Eng. Corp., 12202 E. Garvey Ave., El Monte, Calif.

THOMAS ENGINEERING AND INSPECTION CO., 429 Ness Bldg., Salt Lake City 1, Utah.

THOMAS INDUSTRIES INC., Benjamin Div.—(Listed under Benjamin.)

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THOMAS INDUSTRIES, INC., MOE LIGHT DIV., 410 S. Third St., Louisville, Ky.—Southern Pacific Div.: A. O. Grotenhuis, Sales Mgr., 6423 E. Washington Blvd., Los Angeles 22; R. W. Huizinga, 5142 Caywood, San Diego 17; R. R. Jones, 3745 Mayfair Dr., Pasadena; H. F. Christensen, 812 E. Harmony Lane, Fullerton, Calif.; Northern Pacific Div.: O. C. Westberg, Sales Mgr., 1529 Rollins Rd., Burlingame, Calif.; D. R. Watson, 4719 Pasadena, Sacramento 21; Baxter Sharp, 1068 Cynthia Ln., San Jose; R. L. Patrick, 4027 N. Elgin, Spokane, Wash.; F. A. Farley, 4725 S. W. 18th Pl., Portland 19; H. R. Huber, 1420 W. Lake Sammanish Parkway N. E., Bellevue, Wash.; Jerry D. Long, 615 Jasmine Ave., Corona del Mar, Calif.; W. Terrance Tilley, 1421 Pontiac Ave., Denver, Colo.; Rollo D. Hittle, 16408 Septo, Sepulveda, Calif.

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THOMPSON LIGHTNING PROTECTION, 616 41st Avenue North, Minneapolis, Minn.—Graybar Electric Co., Inc., and General Electric Supply in all principal cities; State Electric Supply Co., Inc., Albuquerque.

THOMPSON RAMO WOOLRIDGE PRODUCTS CO., 202 North Canon Dr., Beverly Hills, Calif.—William O. Paine, 202 North Canon Dr., Beverly Hills, Calif.

THOMPSON TRAILER CORP., 2 Old Court Road, Pikesville, Md.—Standard Trailer Co., 415 San Leandro Blvd., San Leandro, Calif.

THOMSON ELECTRIC WELDER CO., 161 Pleasant St., Lynn, Mass.—Harron Rickard & McCone Co., 2070 Bryant St., San Francisco; Call Equipment Co., P. O. Box 46, San Gabriel, Calif; Overgard Machine Tool Co., 2045 W. 8th Ave., Denver; Bailey Machine Co., 3856 California St., San Diego.

THOR POWER TOOL CO., 175 N. State St., Aurora, Ill.—E. R. Bacon So., San Francisco; Smith-Booth-Usher Co., Los Angeles; Western Machinery Co., Denver and Phoenix; Neal Wiggans Co., Albuquerque; A. H. Cox Co., Seattle; General Electric Supply and Graybar Electric Co., all branches.

THREE E COMPANY, Div. of Hubbard and Co., 25th Ave. and Division St., Melrose Park, Ill.—George E. Honn Co., 560 Third St., San Francisco; Robert A. Young Co., 3901 San Fernando Road, Los Angeles; Eicher & Co., 5 West Harrison St., Seattle.

TIERNEY ELECTRICAL MFG. CO., 2713 1st Ave. S., Seattle 4, Wash.

TIGERMAN ENGINEERING CO., 4332 N. Western St., Chicago, Ill.—John Hyatt Co., 1709 West Eighth St., Los Angeles 17.

TIME-O-MATIC, INC., 1106 Bahls St., Danville, Ill.—Branch Office: 1205 Sunset Blvd., Los Angeles; Northwestern Agencies, Inc., 4130 First Ave. S., Seattle 4.

TITAN MFG. CO., INC., 701 Seneca St., Buffalo, N. Y.—Earl Eckstrom & Associates, 2601 2nd St., Seattle; Eric F. Chemnitz Co., 1096 Yerba Buena Ave., Emeryville and 4279 W. 3rd St., Los Angeles; Roy J. O'Donnell Co., 2256 So. Delaware St., Denver.

TOBE DEUTSCHMANN CORP., Providence Highway, Norwood, Mass.—Branch Offices: 4144 Glencoe Ave., Venice, Calif.; Elecnair Co., 4113 W. Olive Ave., Burbank, Calif.; Peterson Co., 4949 Colorado Blvd., Denver, Colo.; Dave M. Lee Co., 2517 2nd Ave., Seattle 1; Garland-Affolter Eng. Corp., 58 Sutter St., San Francisco; Harris-Koetke Sales Co., 204 E. Hillsdale Blvd., San Mateo, Calif.

TOLEDO COMMUTATOR CO., Owosso, Mich. — Tri-State Supply Corp., 544 S. San Pedro St., Los Angeles 13, 554 Bryant St., San Francisco 7, and 325 Westlake No. Ave., Seattle.

TOLEDO PIPE THREADING MACHINE CO., 1445 Summit St., Toledo, Ohio—M. V. Cox, 7938 Wish Ave., Van Nuys, Calif.; F. W. Caruso, 3208 Camino Colorados, Lafayette, Calif.; W. H. Savory, 3718 W. Monroe, Seattle.

TOMIC SALES & ENG. CO., 20000 Sherwood Ave., Detroit, Mich.—Peter Shubunka, Western Dist. Sales Mgr., 125 Cambon Dr., San Francisco; H. T. Dutter, 3156 Wilshire Blvd., Los Angeles; Thorle J. Vieau, 1871 S. Broadway, Denver; Wm. J. Ashton, 50 Hawthorne St., San Francisco; Norman Ross, 4227 N. Monte Vista Dr., Scottsdale, Ariz.; Edward L. Peterson, 709 Bank of America Bldg., San Diego; Hal A. Gardner & Son, 2616 Second Ave., Seattle; Lynal R. Koroch, 7523 S.E. Tibbetts, Portland; Robert B. Cooper, P. O. Box 3007, Billings, Mont.

TORK TIME CONTROLS, INC., 1 Grove St., Mount Vernon, N. Y.—Allied Industries, 412 Seaton St., Los Angeles 13; Freeman C. Scharr, 2103 Western Ave., Seattle; Stevens Sales Co., 1482 Major St., Salt Lake City; L. S. Reed & Co., 1018 Lawrence St., Denver 4; Fred D. Benz Co., 520 4th St., San Francisco; Matt Cabot & Associates, P. O. Box 3708, Honolulu, Hawaii.

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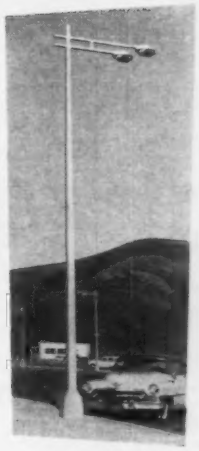

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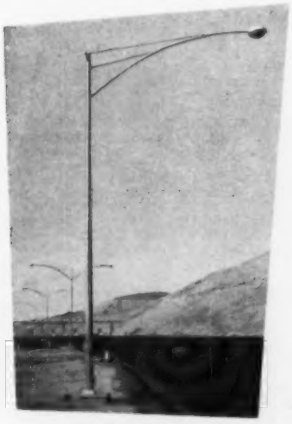

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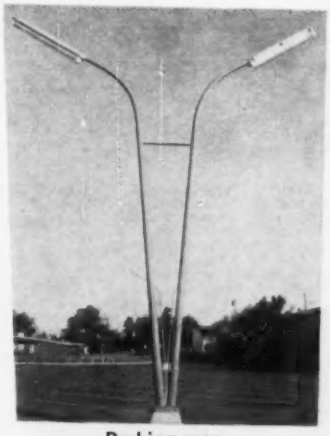

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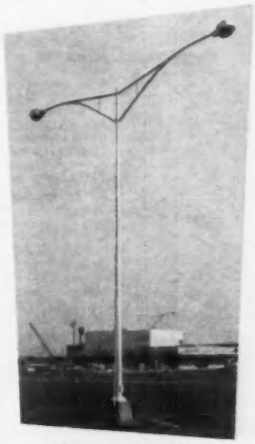

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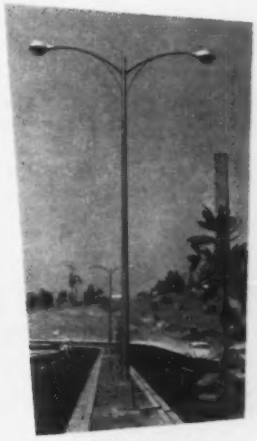

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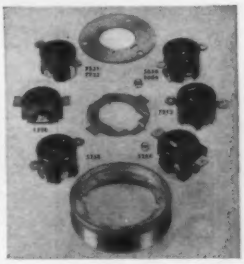

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Economy Transformer Co., Inc.
Knopp, Inc.
Line Materail Industries, Div. McGraw-Edison Co.
Mend-it-Sleeve Mfg. Co.
Nicholas Co., F. M.
Preston Machinery Co.
Roebling's Sons Co., John A.
Silverman, Roy
Tri-State Supply Co.
Wesco Electrical Distributors

Commutator, Dressers
Arthur & Allen
Auto-Hot Stick Rentals
Electrical Specialty Co.
Graybar Elec. Co., Inc.
Maddox Sales Co.
Silverman, Roy
Tri-State Supply Corp.
Wesco Electrical Distributors

Communication Systems (Inter-Com., Mobile, Etc.
Auth Electric Co. Inc.
Automatic Electric
Benz Co., Fred D.
Burcham Co., Don H.
Couch Co. Inc., S. H.
Edwards Co. Inc.
Executone, Inc.
Garnett Young & Co.
General Elec. Industrial Electronics Div.
General Eelectric Supply
Graybar Elec. Co.
Hood Sales Agency, L. D.
Hyde Electronics Co.
Imholt, W. B.
Incandescent Supply Co.
Insul-8-Corp.
International Business Machines Corp.
Jensen Electronics, K. P.
Lenkurt Electric Co. Inc.
Lynch Communication Systems, Inc.
Matzinger-Johnson Co.
Perfect Line Mfg. Corp.
Phillips & Edwards Elec.
Progress Mfg. Co.
Radio Corp. of America Industrial Electronics
Webster Electric
Westinghouse Elec. Corp.
Yelton, O. Perry

Commutator Undercutters-Slotters
Arthur & Allen
General Elec. Co.
Graybar Elec. Co., Inc.
Maddox Sales Co.
Tri-State Supply Corp.

Compounds, Anti-Condensation
Industrial Eng. & Equip. Corp.
Seculate
Wrathall & Krusi

Compounds, Insulating
Agencies Co.
Anaconda Wire & Cable Co.
Blackburn Corp., Jasper
Delta Star Elec. Div., H. K. Porter Co., Inc.
Dolph Co., John C.
Electric Motor Supply
Electrical Specialty Co.

ARTHUR & ALLEN

Manufacturers' Representatives

420 Market St.
San Francisco, Calif.
Phone: YU 2-3483

KAISER
Aluminum Conduit
KERRIGAN
Aluminum & Steel Light Poles
SPERO ELECTRIC
Incandescent Lighting
SOLAR
Fluorescent Lighting
ELECTRIDUCT
Over the Floor Wiring Devices
UNDERGROUND PRODUCTS CO.
Plastic Conduit Spacers

Fargo Mfg. Co. Inc.
G & W Elec. Specialty Co.
General Cable Corp.
General Elec. Co.
Gough Industries, Inc.
Geo. A. Gray Co.
Graybar Elec. Co., Inc.
Geo. E. Honn Co.
Hubbard & Co.
Incandescent Supply Co.
Ingalls & Sons, C. E.
Ingalls, Donald
Johns-Manville
Kearney Corp., James R.
W. E. Kirk Co.
C. D. La Moree
Lapp Insulator Co. Inc.
Line Material Industries, Div. McGraw-Edison Co.
Martindale Elec. Co.
Matzinger-Johnson Co.
Maydwell & Hartzell, Inc.
Minnesota Mining and Mfg. Co.
Montgomery Brothers, Inc.
Motorman Supply Co.
Natvar Corp.
Nicholas Co., F. M.
O. Z. Elec. Mfg. Co., Inc.
Okonite Co.
Permacel
Phillips & Edwards Elec. Corp.
PLM Products, Inc.
Plymouth Rubber Co.
Pomeroy Co., J. G.
Porcelain Products Co.
Rockbestos Products Corp.
John A. Roebling's Sons Co.
Saureisen Cement Co.
Schenectady Varnish
Sierra Elec. Corp.
Stubbs Electric Co.
Tri-State Supply Corp.
United States Rubber Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
Zippertubing Co.

Computers—Electronic—Digital-Analog
Arthur & Allen
Beckman Instruments
Federal Tele. & Radio
General Electric Co.
General Electric Supply Co.
International Business Machines
Minneapolis-Honeywell
North American Aviation
Ramo-Wooldridge Corp.
Ripley Co.
Smedley & Associates, A. B.
Westinghouse Electric Corp.
White-Rodgers Co.

Condensers, Electric
Allis-Chalmers Mfg. Co.
Backer Co., James J.
Jasper Blackburn Corp.
Brown-Boveri Corp.
Burcham Co., Don H.
Electrical Specialty Co.

GEO. A. GRAY COMPANY

2720 17th St., San Francisco 10, Calif. HE 1-1526

MANUFACTURERS' REPRESENTATIVES

CALIFORNIA WIRE PRODUCTS CO.—Calwire staples.
CONDUIT NIPPLE MFG. CO.—Nipples, elbows, couplings, running thread.
GRAYSIX COMPANY—Fish steel, outlet box covers, special cord sets.
HENDERSON ELECTRIC COMPANY—Conduit bending tools.
McGILL MFG. CO.—Levolier switches, lamp guards, portables, lamp changers.
PORCELAIN PRODUCTS, INC.—Knobs, tubes, wire holders, insulators.
THE WIREMOLD COMPANY—**WIREMOLD** raceways, lighting strips, loom, fluorescent fixtures, **PLUGMOLD.**

ELECTRIC CABLE AND WIRE

From Stock—Cut to Length

Power Cable
Control Cable
Asbestos Cable
Underground Cable
High Voltage Cable

Write for Stock List

William Cereske Company

1401 Middle Harbor Road
Oakland 20, California

TEmplebar 2-3546

The Electric Corp.
General Elec. Co.
General Elec. Supply Co.
Incandescent Supply Co.
Long & Associates
Marsh, J. W.
Motorman Supplies
Nott, L. A.
Phillips-Edwards Elec. Corp.
Rising, Inc., H. G.
Sangamo Elec. Co.
Silverman, Roy
Smedley & Assoc., A. B.
Stroum, Samuel N.
Stubbs Electric Co.
Wesco Electrical Distributors
Westinghouse Elec. Corp.

Condensers, Steam

Allis-Chalmers Mfg. Co.
Long & Associates
Maydwell & Hartzell, Inc.
Metcalf & Co., Inc., James I.
Nott, L. A.
Rising, Inc., H. G.
Wesco Electrical Distributors
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Conduit

Allied Industries
Aluminum Co. of America
Anaconda Wire & Cable Co.
Metal Hose Div.
Anderson, Kenneth
Baxter Co.
Benz Co., Fred D.
Bergman-Marshall Co. Inc.
Bran Co., Frank H.
Briegel Method Tool Co.
Brown Co.
California Conduit & Cable Co.
Carlson Sales, Inc.
Clifton Conduit Co.,
Div. General Cable
Columbia Cable & Elec. Co.
Conduit Pipe Products Co.
Curry Co.
Darger Co.
Dawson Co., Jim
Egbert and Associates
The Electric Corp.
Garnett-Young & Co.
General Elec. Co.
General Elec. Supply Co.
Gough Industries, Inc.
Graybar Elec. Co., Inc.
Harvey Aluminum
Hodges & Glomb
Howe & Howe Sales
Imholt Co., W. B.
Incandescent Supply Co.
Johns-Manville Corp.
Keeler-White Co.
Line Material Industries, Div.
McGraw-Edison Co.
Maddox Sales Co.
Mark & Co., Clayton
Maydwell & Hartzell, Inc.
Murphy-Hain Co.
National Elec.
Div. H. K. Porter Co. Inc.
National Supply Co.
Tubular Products Div.
Northwest Sales & Eng. Service
Phillips & Edwards Elec. Corp.
J. G. Pomeroy Co.
R & M Sales Co.
Randolph Eng. Corp.
Republic Steel Corp.
Rome Cable Div. Alcoa
Rutkin Sales
Sales Engineers, Inc.
Shirreffs Co., Jim
Soapstone Duct Co.
Spang-Chalfant Div. Nat'l Supply
Staible & Sons Co., Fred
Stubbs Electric Co.
Triangle Conduit & Cable Co.
Tri-State Supply Corp.
Youngstown Sheet & Tube Co.

Conduit, Aluminum

Aluminum Co. of America
Condon Co., Earl S.
General Elec. Supply Co.
Graybar Electric Co., Inc.
Harvey Aluminum
Incandescent Supply Co.
Kaiser Aluminum & Chem. Corp.
National Electric Div.,
H. K. Porter Co. Inc.
Phillips & Edwards Elec. Corp.
Reynolds Metals
Rome Cable Div. of Alcoa
Westinghouse Elec. Supply Co.

Conduit, Fibre

General Elec. Co.
General Elec. Supply Co.
Graybar Electric Co., Inc.
Incandescent Supply Co.
Johns-Manville Corp.
Line Material Industries, Div.
McGraw-Edison Co.
Orangeburg Mfg. Co., Inc.
Phillips & Edwards Elec. Corp.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

90° and 45° ELBOWS

Couplings, Nipples, E.M.T. and Special Radius Elbows, Goosenecks, Wall Plates and Running Thread

Columbus BRAND **CONDUIT PIPE PRODUCTS CO.** COLUMBUS, OHIO

Conduit, Fittings

Adalet Mfg. Co.
Agencies Co.
Allen-Stevens Conduit Fittings Corp.
Allied Industries
Anderson, Kenneth
Ashton, William J.
Bach Associates
Bach Electric, Pete
Baxter Co.
Benz Co., Fred D.
Bergman-Marshall Co.
The Frank H. Bran Co.
Briegel Method Tool Co.
Bruce-Emmett Co.
Buchanan Electrical Prod. Corp.
Cabot & Associates, Matt
Carlson Sales, Inc.
Conduit Nipple Mfg. Co.
Conduit Pipe Products Co.
E. B. Cook Co.
Coombs Co., O. W.
Crouse Hinds Co.
Curry Co., The
Darger Co.
Dawson Co., Jim
de Leuze Co., Guy
The Electric Corp.
Electric Tube Products, Inc.
Electrical Fittings Corp.
Electrical Sales
Fullman Mfg. Co.
Gedney Electric Co.
General Elec. Co.
General Elec. Supply Co.
Gough Industries, Inc.
Gray Co., George A.
Graybar Electric Co., Inc.
Hodges & Glomb
Honn Co., George
Howard & Goepp
Imholt Co., W. B.
Incandescent Supply Co.
Johns-Manville Corp.
Killark Elec. Mfg. Co.
Levin, M.
Line Material Industries, Div.,
McGraw-Edison Co.
Littrell Hardware
Lynn & Brook
Maddox Sales Co.
Mason Co., L. E.
Matzinger-Johnson Co.
Maydwell & Hartzell, Inc.
Murphy-Hain Co.
Myers Electric Products Inc.
Nat'l Electrical
Div. H. K. Porter Co. Inc.
F. M. Nicholas Co.
Northwest Sales & Eng. Service
Ormond, John H.
O. Z. Elec. Mfg. Co., Inc.
Pacific Electric Sales
Pacific Utilities Supply Co.
Payne & Sloan, Inc.
Penn-Union Elec. Corp.
Phillips & Edwards Elec. Corp.
Pittsburgh Standard Conduit Co.
PLM Products, Inc.
J. G. Pomeroy Co.
R & M Sales
Republic Steel Corp.
Rutkin Sales
Jim Shirreffs Co.
Sierra Elec. Corp.
Slusser Co., L. M.
Soapstone Duct Co.
Square D Co.
Staible & Sons Co., Fred
Strohecker, Inc.
Stubbs Electric Co.
Triangle Conduit & Cable Co., Inc.
Tri-State Supply Corp.
Weingart & Lustig
Wesco Electrical Distributors
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
Youngstown Sheet & Tube Co.
Young & Co., Robt. A.

Conduit, Flexible, Metallic

Allen-Stevens Conduit Fittings Corp.
American Brass Co., American
Metal Hose Div.
Anaconda Wire & Cable Co.
The Frank H. Bran Co.
California Conduit & Cable Co.
Clifton Conduit Div. General Cable
Corp.
Columbia Cable & Elec. Corp.
Curry Co., The
Ettco Wire & Cable Corp.
General Elec. Co.
General Elec. Supply Co.
Graybar Electric Co., Inc.
Hodges & Glomb
Ideal Industries, Inc.
Incandescent Supply Co.
Keeler, White Co.
National Elec.
Div., H. K. Porter Co., Inc.
J. G. Pomeroy Co.
Phillips & Edwards Elec. Corp.
Rome Cable Corp.
Tri-State Supply Corp.
Triangle Conduit & Cable Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Conduit, Liquid Tight Flexible

Anaconda American Brass Ltd.
Anaconda Metal Hose Div.
Anaconda Wire & Cable Co.
Bran Co., Frank
Columbia Cable & Elec. Co.
Graybar Elec. Co., Inc.
Incandescent Supply Co.
Phillips & Edwards Elec. Corp.

Conduit, Non-Metallic

American Brass Co., American
Metal Hose Div.
Bran Co., Frank H.
Clifton Conduit Div.,
General Cable Corp.
Columbia Cable & Elec. Co.
Curry Co.
Essex Wire Corp.
Gray Co., George A.
Graybar Elec. Co., Inc.
Hodges & Glomb
Incandescent Supply Co.
Johns-Manville Corp.
LaMoree, C. D.
Line Material Industries, Div.
McGraw-Edison Co.
Maydwell & Hartzell, Inc.
Peterson Co., F. Somers
Phillips & Edwards Elec. Corp.
Soapstone Duct Co.
Triangle Conduit & Cable Co.

Conduit, Plastic

Black, Ralph B.
Carlon Products Corp.
Carlson Co., Fred
Clifton Conduit
Div. of Gen. Cable
Curry Co.
Jaeger Co.
Kraloy Plastic Pipe Co. Inc.

Conduit, Rigid

Allied Industries
Bran Co., Frank H.
Clifton Conduit Div. General Cable
Corp.
Columbia Cable & Elec. Co.
Curry Co.
The Electric Corp.
General Elec. Co.
General Elec. Supply Co.
Graybar Elec. Co., Inc.
Harvey Aluminum
Hodges & Glomb
Incandescent Supply Co.
Johns-Manville Corp.
Kaiser Aluminum & Chem. Co.
Kraloy Plastic Pipe Co. Inc.
Mark & Co., Clayton
Nat. Elec. Div., H. K. Porter Co., Inc
Pittsburgh Standard Conduit Co.
Republic Steel Corp.
Rome Cable Div. Alcoa
Spang-Chalfant Div. Nat'l. Sup.
Tri-State Supply Corp.
Triangle Conduit & Cable Co.
Phillips & Edwards Elec. Corp.
Youngstown Sheet & Tube Co.

Conduit, Underground

Benz Co., Fred D.
Bran Co., Frank H.
Brown Co.
Columbia Cable & Elec. Co.
Curry Co.
The Electric Corp.
General Elec. Co.
General Elec. Supply Co.
Graybar Electric Co., Inc.
Incandescent Supply Co.
Johns-Manville Corp.
Line Material Industries, Div.
McGraw-Edison Co.
Maydwell & Hartzell, Inc.
National Elec.
Div., H. K. Porter Co. Inc.
Orangeburg Mfg. Co., Inc.
Phillips & Edwards Elec. Corp.
Rome Cable Div. Alcoa
Soapstone Duct Co
Spang-Chalfant Div. Nat'l Sup. Co.
Square D Co.
Triangle Conduit & Cable Co., Inc.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Connectors, Couplings

A & A Supply Co.
Agencies Co.
Allen-Stevens Conduit Fittings Corp.
Allied Industries
Amadco
American Pamcor, Inc.
AMP, Inc.
Anderson Electric Corp.
Anderson, Kenneth
F. M. Anthony Co.
Arthur & Allen
Artwel Elec. Inc.
Backer Co., James J.
Baxter Co.
Benz Co., Fred D.
Bergman-Marshall Co. Inc.
Bethea Co., Inc.
Jasper Blackburn Corp.
The Frank H. Bran Co.
Briegel Method Tool Co.
Brill Electric Sales
Bruce-Emmett Co.
Buchanan Electrical Prod. Corp.
BullDog Elec. Prod. Co.
Burndy Corp.
Burcham Co., Don H.
Calrepco
Campbell & George Co.
Earl S. Condon Co.
Conduit Nipple Mfg. Co.
Conduit Pipe Products Co.

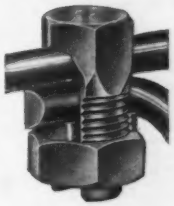
Connectors, Couplings—Cont'd.
Cook Co., E. B.
Coombs, O. W.
Coulson, Roy E.
Crouse Hinds Co.
Curry Co., The
Darger Co.
Delta Star Elec. Div.,
H. K. Porter Co., Inc.
Dossert Mfg. Co.
Doughetry Enterprises
Eagle Electric Mfg. Co., Inc.
Edstrom, J. E.
Electrical Fittings Corp.
Electrical Specialty Co.
Eiggren & Sons, A. J.
Erico Products, Inc.
Fargo Mfg. Co., Inc.
Gedney Electric Co.
General Electric Co.
General Elec. Supply Co.
Gibbons Electric Co.
Gough Industries, Inc.
Gray Co., George A.
Graybar Electric Co., Inc.
Guire Co., H. C.
Hamilton Associates
Harvey Aluminum
Hayjax Co.
Hendrey Co., W. R.
Hodges & Glomb
Holub Industries, Inc.
Holzmueller Lighting, C. J.
Geo. E. Honn Co.
Horning Sales, Bill
Howard & Goepp Co.
Howe & Howe Sales
Hubbard & Co.
Hubbell, Inc., Harvey
Ideal Industries, Inc.
Ilsco Corp.
Imholt Co., W. B.
Incandescent Supply Co.
Industrial Eng. & Equip. Corp.
Ingalls & Son , C. E.
Ingalls, Donald
Insulator Dept., GE Co.
Johns-Manville
Kaufman, Jack
James R. Kearney Corp.
Keeler, White Co.
Killark Electric Mfg. Co.
W. E. Kirk Co.
Krotozyner, J. M.
MacCorkle Inc., D. S.
Maddox Co., John H.
Maddox Sales Co.
Magnes Co., Inc., Geo. R.
Marsh, J. W.
Mason Co., L. E.
Matzinger-Johnson Co.
Maydwell & Hartzell, Inc.
Miksch, Don
Minnesota Mining & Mfg. Co.
Motorman Supply Co.
Murphy-Hain Co.
Muth-Richards
National Elec
Div., H. K. Porter Co. Inc.
National Tele. Supply Co.
F. M. Nicholas Co.
Ormond, John H.
O. Z. Elec. Mfg. Co., Inc.
Pacific Electric Sales
Pacific Utilities Supply Co.
Pass & Seymour
Penn-Union Elec. Corp.
Phillips & Edwards Elec. Corp.
Polich, Inc., Andrew L.
Pomeroy Co., J. G.
R & M Sales
Randolph Engineering Corp.
Royal Electric Corp.
Royal Elec. Mfg. Co. Inc.
Rutkin Sales
Ryals Co., K. M.
Schwager-Wood Corp.
Jim Shirreffs Co.
Slusser, Leonard M.
Smedley & Associates, A. B.
Soapstone Duct Co.
Southern States Equip. Corp.
Square D Co.
Staible & Sons, Fred
Sta-Tite Mfg. Co.
Strohecker Inc.
Stroum, Samuel N.
Stubbs Electric Co.
Stumph, J. H.
Western Hardware & Tool Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
Wood Co., Thomas
Wrathall & Krusi
Young & Co., Robt. A.

Control Equipment
Acec Elec. Corp.
Allen-Bradley Co.
Allied Industries, Inc.
Allis-Chalmers Mfg. Co.
Ambrosini, A. T.
American Solenoid
Artwel Electric, Inc.
Belilove Co.
Benz Co., Fred D.
Brown-Boveri Corp.
BullDog Electric Prod. of L.A.
Cabot & Associates, Matt
Campbell & George Co.
Carns & Hoaglund
Cereske Co., William
Church, L. F.
Clapp, R. B.
Clark Controller Co.
Columbia Electric Mfg. Co.
Condon Co., Earl S.
Control Switches Inc.
Cook Co., E. B.
Crouse-Hinds Co.
Dalton, C. R.
Davidson & Assoc., Joe
Dawson Co., Jim
de Leuze Co., Guy
E & M Equipment
H. D. Easterbook
The Electric Corp.
Electric Motor Supply
Federal Pacific Electric Co.
Fisher-Pierce Co.
Furnas Elec. Co.
General Electric Co.
General Electric Supply Co.
Gorman, F. W.
Graybar Electric Co., Inc.
Horning Sales, Bill
Howard & Goepp Co.
Howe & Howe Sales
Hughey & Phillips, Inc.
Hyatt, John
Incandescent Supply Co.
Industrial Eng. & Equip. Corp.
Ingalls & Sons, C. E.
Jones Co., J. Henry
Joslyn Pacific
Herbert Kaub & Co.
Kearns Co., James L.
Keeler-White
W. E. Kirk
Krotozyner, J. M.
Lakeshore Elec. Corp.
Line Material Industries, Div.
Lyman, Oliver B.
Lynch Communications Systems, Inc.
Maydwell & Hartzell, Inc.
McDougall
Micro Balancing, Inc.
Moloney Elec. Co.
Mnotgomery Bros., Inc.
Motorman Supply Co.
Mueller, M. L.
James Mundstock
Muth-Richards
Nash, A. W.
National Elec. Div.,
H. K. Porter Co. Inc.
Nelson Elec. Mfg. Co.
F. M. Nicholas Co.
L. A. Nott
Pacific Control Products
Parsons & Co., C. B.
Phillips & Edwards Elec. Corp.
Polich, Inc., Andrew L.
Precision Multiple Controls
R & M Sales
Randolph Engineering Corp.
Rising, Inc., H. G.
Roberson, Inc.
T. R. Routh Co.
Rowan Controller Co.
Ryals Co., K. M.
Sales Engineers, Inc.
Sangamo Electric Co.
Shirreffs Co., Jim
Sierra Elec. Corp.
Slusser Co., L. M.
Smedley & Associates, A. B.
Square D Co.
Standard Elec. Sales
Stevens Sales Co.
Stubbs Electric Co.
Superior Cable Corp.
Warrick Co., Charles F.
Weingart & Lustig
Western Electro-Mechanical
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
White-Rodgers Co.
Williams Equip.
Wood Co., Thomas
Wrathall & Krusi, Inc.
Young & Co., Robt. A.

Converters, Synchronous
Allis-Chalmers Mfg. Co.
Artwel Electric, Inc.
Davidson & Assoc., Joe
General Electric Co.
Hartley, Barney H.
Hyatt, John
Kearns Co., James L.
Smedley & Assoc., A. B.
Stolaroff, M. A.
Stubbs Electric Co.
Westinghouse Elec. Corp.

Cords, Appliance
Acorn Ins. Wire Co. Inc.
Anaconda Wire & Cable Co.
Benz Co., Fred D.
Bran Co., Frank H.
Carder Jr. Co., John
Carol Cable Co.
Cereske Co., Wm.

THERE IS A DIFFERENCE!



Connectors may look alike but it's PERFORMANCE that counts

BLACKBURN CONNECTORS OUT-PERFORM THEM ALL

Because they are...

BETTER MECHANICALLY

● Made of high strength duronze, a silicon bronze alloy stronger than structural steel.

BETTER ELECTRICALLY

● High clamping force—the result of greater thread efficiency breaks down oxide on the conductor improving conductivity.

REUSABLE

● Selection of proper high-strength, corrosion-resistant materials—plus precision workmanship and inspection—means Blackburn connectors may be used over and over.

Jasper BLACKBURN Corporation

1525 Woodson Road • St. Louis 14, Mo. • WYdown 3-9430

Cornish Wire Co.
Brill Electric Sales
Eagle Elec. Mfg. Co., Inc.
The Electric Corp.
General Cable Corp.
General Electric Co.
General Electric Supply Co.
Gough Industries, Inc.
Graybar Electric Co., Inc.
Hornstein Bros.
Incandescent Supply Co.
Keeler White
Nat'l Elec. Div.,
H. K. Porter Co., Inc.
Phillips & Edwards Elec. Corp.
Rockbestos Products Corp.
Roebling's Sons Co., John A.
Rome Cable Div. Alcoa
Royal Electric Corp.
Royal Elec. Mfg. Co. Inc.
Shirreffs Co., Jim
Western Ins. Wire Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Cords, Heavy Duty
American Steel & Wire Co.
Anaconda Wire & Cable Co.
Benz Co., Fred D.
Bran Co., Frank H.
Brill Elec. Sales
Carol Cable Co.
Cereske Co., William
Circle Wire & Cable
Clifton Conduit Div.,
General Cable Corp.
Collyer Insulated Wire Co.
Earl S. Condon Co.
Cornish Wire Co., Inc.
Curry Co., The
Eagle Electric Mfg. Co., Inc.
The Electric Corp.
Essex Wire Corp.
General Cable Corp.
General Elec. Co.
General Elec. Supply Co.
Gough Industries, Inc.
Gray Co., Geo. A.
Graybar Elec. Co.
Hatfield Wire & Cable Div.
Hubbell, Inc., Harvey
Incandescent Supply Co.
Kaiser Alum. & Chem. Corp.
Maydwell & Hartzell, Inc.
National Elec. Div.,
H. K. Porter Co. Inc.
Nicholas Co., F. M.
Okonite Co.
Payne & Sloan, Inc.
Rockbestos Products Corp.
John A. Roebling's Sons Co.
Rome Cable Div. Alcoa
Royal Electric Corp.
Royal Elec. Mfg. Co. Inc.
Simplex Wire & Cable Co.
Tri-State Supply Corp.
Geo. E. Honn Co.
Gough Industries, Inc.
General Switch Corp.

Counters, Computing Devices
(See Computers.)

Couplings
(See Connectors, Couplings)

Cranes
(See Derricks, or Trolley Systems)

Crossarms
Aluminum Company of America
Chance Co., A. B.
General Elec. Supply Co.
Graybar Elec. Co.
Geo. E. Honn Co.
Haley International Corp., R. G.
Hubbard & Co.
Line Material Industries, Div.
Insulator Dept., GE Co.
Matzinger-Johnson Co.
Maydwell & Hartzell, Inc.
Pacific Crossarm Co.
Pennington Crossarm Co.
Westinghouse Elec. Supply Co.
Wrathall & Krusi

Cutouts
Chance Co., A. B.
Cunningham & Son, R. E.
Federal Pacific Electric
G & W Electric Specialty Co.
General Elec. Co.
Gough Industries, Inc.
Graybar Elec. Co., Inc.
Guire, H. C.
Hendrey Co., W. R.
Geo. E. Honn Co.
Hubbard & Co.
Incandescent Supply Co.
Industrial Eng. & Equip. Co.
C. E. Ingalls & Sons
James R. Kearney Corp.
Kirk Co., W. E.
Line Material Industries, Div.
McGraw-Edison Co.
Maydwell & Hartzell, Inc.
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Honn Co., George E.
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(See Computers.)

Dead-Ends
(See Clamps, Dead-Ends)

Derricks—Dinkies
Arthur & Allen
Baldwin-Lima-Hamilton
Ford Co., Inc., T. A.
FWD Co., The
Graybar Elec. Co., Inc.
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Holan Corp., The J. H.
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Morrison-Pelsue Co.
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Blackburn Corp., Jesper
Burndy Corp.
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Esco Mfg. Co.
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Graybar Elec. Co., Inc.
Hubbard & Co.
Industrial Eng. & Equip. Corp.
Ingalls & Sons, C. E.
Ingalls, Donald
I-T-E Circuit Breaker Co.
James R. Kearney Corp.
Kirk Co., W. E.
Kortick Mfg. Co.
Line Material Industries, Div. McGraw-Edison Co.
Insulator Dept., GE Co.
Maydwell & Hartzell, Inc.
Myers Electric Products Inc.
National Elec. Div., H. K. Porter Co. Inc.
O. Z. Electrical Mfg. Co.
Pacific Utilities Supply Co.
Porcelain Insulator Corp.
Porcelain Products, Inc.
Randolph Eng. Corp.
Rising, Inc., H. G.
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Safety Switchboard Co.
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Thomas Works, H. K. Porter Co., Inc.
Victor Insulators Div.
Western Switchboard Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
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Dollies, Pole
(See Trucks, Trailers)

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Howard & Associates, G. M.
Incandescent Supply Co.
Matzinger-Johnson Co.
Phillips & Edwards Elec. Corp.
Trine Mfg. Corp.

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McCabe Powers Body Co.
Nicholas Co., F. M.
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Phillips & Edwards Elec. Corp.
Truco
Utility Body Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

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Allis-Chalmers
Benz Co., Fred D.
Brill Electric Sales
Bruce-Emmett Co.
BullDog Elec. Products Co.
Calrepco
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Cope, T. J., Div., Rome Cable
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General Electric Supply Co.
Gough Industries, Inc.
Graybar Elec. Co., Inc.
Hartley, Barney H.
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Lyman Co., Oliver B.
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National Supply Tubular Prod. Div.
Orangeburg Mfg. Co., Inc.
Phillips & Edwards Elec. Corp.
Randolph Engineering Corp.
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Safety Switchboard Co.
Sheeter, Hugh X.
Soapstone Duct Co.
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Stevens Sales Co.
Stubbs Electric Co.
Taylor Electric Co.
Wells Co., Wayne C.
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Westinghouse Elec. Supply Co.

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Ford Co., T. A.
FWD Co., The
Graybar Elec. Co., Inc.
Geo. E. Honn Co.
Holan Corp., The J. H.
Industrial Eng. & Equip. Corp.
Kearney Corp., James R.
Line Material Industries, Div.
Maydwell & Hartzell, Inc.
McCabe Powers Body Co.
Petersen Engineering Co.
Tel-E-Lect Products Co.
Texoma Enterprises, Inc.
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Westinghouse Elec. Supply Corp.

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Gedney Elec. Co.
Graybar Elec. Co., Inc.
Incandescent Supply Co.
Kraloy Plastic Pipe Co.
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Pacific Utilities Supply Co.
Phillips & Edwards Elec. Corp.
Ryals Co., K. M.
Sierra Elec. Corp.
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Belilove Co.
General Elec. Co.
Westinghouse Elec. Corp.

Electronic Devices
Ambrosini, A. T.
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Artwel Electric, Inc.
Ault Associates
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Brenner-Fiedler & Associates
Burcham Co., Don H.
Cahn, Bernard
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Cerruti & Associates
Condon Co., Earl S.
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Coombs Sales Co., O. W.
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Graybar Elec. Co.
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Howe & Howe Sales
Hubbell, Inc., Harvey
Hundley Co.
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Long & Associates
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Markman Co., Mark R.
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Marshall Co., G. S.
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Porter, Burt
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Ross, David
Routh Co., T. R.
Sierra Elec. Corp.
Slusser Co., L. M.
Smallcomb Electric Co.
Smedley Assoc., A. B.
Standard Electric Sales
Square D Co.
Stolaroff, M. A.
Stone, Carlos
Strassner Co., R. A.
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Tri-State Supply Corp.
Weightman & Associates
Western Electronic Eenterprises
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Electroplaters (See Platers)

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Blakeman Bros. Electric Mfg. Co., Inc.
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Killark Elec. Mfg. Co.
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Wadsworth Elec. Mfg. Co.
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Acme Steel Co.
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Bran Co., Frank H.
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Smallcomb Elec. Co.

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Stearns Sales
Stevens Sales Co.
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Tri-State Supply Corp.
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Fire-Proofing
Johns Manville Corp.
Rockbestos Prod. Corp.

Fish Tape
(See Tape, Fish, Wire Pullers, etc.)

Fittings, Conduit
(See Conduit Fittings)

Fittings, Copper Conductor
Allied Industries, Inc.
Anderson Electric Corp.
F. M. Anthony Co.
Jasper Blackburn Corp.
Buchanan Elec'l Prod. Corp.
Burndy Corp.
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Delta Star Elec. Div., H. K. Porter Co., Inc.
Eichorn & Melchoir
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Gedney Elec. Co.
General Electric Co.
General Electric Supply Co.
Graybar Elec. Co., Inc.
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Buchanan Elec'l Products
Graybar Elec. Co., Inc.
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Killark Elec. Mfg. Co.
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Westinghouse Elec. Corp.
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Gray Co., George A.
Graybar Elec. Co.
Hodges & Glomb
Honn Co., Geo. E.
Hubbard & Co.
Incandescent Supply Co.
Ingalls & Sons, C. E.
Kearney Corp., James R.
W. E. Kirk Co.
Kortick Mfg. Co.
Lapp Insulator Co., Inc.
Line Material Industries, Div. McGraw-Edison Co.
Insulator Dept. GE Co.
Maydwell & Hartzell, Inc.
Nicholas, F. M.
O. Z. Electrical Mfg. Co.
Ohio Brass Co.
Penn-Union Elec. Corp.
Phillips & Edwards Elec. Corp.
Porcelain Insulator Corp.
Porcelain Products, Inc.
Shirreffs Co., Jim
Thomas Works, Div.,
Victor Insulators, Inc.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Fittings, Marine
Allied Industries, Inc.
Eichorn & Melchoir
General Electric Supply Co.
Gray Co., Geo. A.
Incandescent Supply Co.
Hodges & Glomb
Phillips & Edwards Elec. Corp.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Fittings, Pipe & Structural
Arthur & Allen
Arthur, Robert J., Co.
Conduit Pipe Products Co.
Delta Star Elec. Div., H. K. Porter Co., Inc.
Electrical Fittings Corp.
Electric Tube Products, Inc.
Gedney Electric Co.
General Electric Co.
Gray Co., George A.
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Porcelain Products, Inc.
Royal Elec. Mfg. Co. Inc.
Shirreffs Co., Jim
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Fixtures, Lighting

All-Brite Lighting Div.
Allied Industries, Inc.
Appleton Electric Co.
Arthur & Allen
Babcock, Stephen
Benjamin Elec. Mfg. Co.
Benz Co., Fred D.
Blakely, Charles A.
Cabot & Associates, Matt
Collins & Gillett
Commercial Lighting Equipment Co.
E. B. Cook
Crouse-Hinds Co.
Curtis-AllBrite Lighting, Inc.
Day-Brite Lighting, Inc.
de Leuze Co., Guy
The Electric Corp.
General Electric Supply Co.
Globe Lighting Products, Inc.
Graybar Elec. Co., Inc.
Holophane Co., Inc.
Holzmueller Corp.
Howard & Goepp Co.
Hubbard & Co.
Incandescent Supply Co.
Kaufmann, Leo
Killark Elec. Mfg. Co.
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McGraw-Edison Co.
McPhilben Mfg. Co. Inc.
Maddox Sales Co.
Markel Elec. Products, Inc.
Miroflector Co., Inc.
Myers Elec. Prod., Inc.
Neo-Ray Products, Inc.
Nicholas Co., F. M.
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Sunbeam Lighting Co.
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Thallon, Robert
Versen Co., Kurt
Virden Co., John C
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Flashers

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Crouse-Hinds Co.
Eagle Electric Mfg. Co. Inc.
Fisher-Pierce Co. Inc.
General Electric Supply Co.
Graybar Electric Co., Inc.
Hughey & Phillips, Inc.
Joslyn Pacific
Kirk Co., W. E.
Maydwell & Hartzell, Inc.
Micro Balancing, Inc.
L. A. Nott
Sangamo Elec. Co.
Smedley & Associates, A. B.
Westinghouse Elec. Corp.

Flashlights

General Electric Co.
General Electric Supply Co.
Graybar Electrical Products Co.
Hodges & Glomb
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Floodlights

All-Brite Lighting Div.
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Appleton Electric Co.
Baxter Co., The
Benjamin Elec. Mfg. Co.
Benz Co., Fred D.
Bran Co., Frank H.
Ceco
Commercial Lighting Equip. Co.
E. B. Cook
Crouse-Hinds Co.
Curtis-AllBrite Lighting Div.
deLeuze Co., Guy
The Electric Corp.
General Electric Co.
General Electric Supply Co.
Graybar Elec. Co.
Hartley, Barney H.
Hodges & Glomb
Holophane Co., Inc.
Holzmueller Corp.
Incandescent Supply Co.
Jones, Robert E.
Keeler, White Co.
Killark Elec. Mfg. Co.
Line Material Industries, Div.
McGraw-Edison Co.
Maddox Sales Co.
F. M. Nicholas Co.
Nu-Art Lighting Mfg. Co.
Noack, Martin
Penning, J. R.
Revere Elec. Mfg. Co.
Royal Electric Corp.
Royal Elec. Mfg. Co. Inc.
Jim Shirreffs Co.
Smoot-Holman Co.
Steber Mfg. Co. of Calif.
Thallon, Robert
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
Wrathall & Krusi

Floor Systems for Computer Rooms

Balco Sales, Inc.
ITEECo, Div. of Idaho Maryland Industries Inc.
Framing Material Supply
Omark West Coast
Osborne Electric
Utilities Supply Co.
Von Hamm Young

Fluorescent Fixtures & Accessories

Acme Lighting & Mfg. Co.
Ashton, William J.
All-Brite Lighting Div.
Appleton Elec. Co.
Arthur & Allen
Babcock, Stephen
Backer Co., James J.
Baxter Co., The
Benjamin Elec. & Mfg. Co.
Benz Co., Fred D.
Blakely, Charles A.
The Frank H. Bran Co.
Cabot & Associates, Matt
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Commercial Lighting Equip. Co.
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Crouse-Hinds Co.
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Darger Co.
Dawson Co., Jim
Day-Brite Lighting, Inc.
deLeuze Co., Guy
The Electric Corp.
General Elec. Co.
General Electric Supply Co.
Gleason & Assoc., Don
Globe Lighting Prod., Inc.
Gough Industries, Inc.
Geo. A. Gray Co.
Graybar Elec. Co.
Hamilton Associates
Hartley, Barney H.
Hodges & Glomb
Holophane Co., Inc.
Holzmueller Corp.
Hooey Co., M. J.
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Hub Elec. Mfg. Co.
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Imhof, E. F.
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Kirlin Co.
Leadlight Fixture Co.
Levin, M.
Lighting Dynamics
Maddox Sales Co.
McGuire, W. A.
Moe Light, Div.
Neo-Ray Products, Inc.
F. M. Nicholas Co.
Noack, Martin
Noel Associates, Ray J.
Nu-Art Lighting & Mfg. Co.
Pacific Industries
Parker, A. R.
Parrish & Justice Co.
Pass & Seymour, Inc.
Peerless Electric Co.
Peerless Elec.
Div., H. K. Porter Co. Inc.
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Pfaff & Kendall
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Pomeroy Co., J. G.
Revere Elec. Mfg. Co.
Schulter, John A.
Sheeter & Co.
Jim Shirreffs Co.
Silverman, Roy
Slusser Co., L. M.
Smedley & Associates, A. B.
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Stearns Sales Co.
Steber Mfg. Co. of Calif.
Sterner Industries, Inc.
Stevens Sales
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Sunbeam Lighting Co.
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Wesco Electrical Distributors
Westinghouse Elec. Corp.
Wrathall & Krusi, Inc.

Fluorescent Lacquers

General Electric Supply Co
Graybar Elec. Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Fluxes, All Types

L. B. Allen Co.
Coffin, E. Jack
General Elec. Co.
Graybar Elec. Co., Inc.
Gratiot Co., C. B.
Wilcox, George P.

Foil—Aluminum

Aluminum Co. of America
Kaiser Aluminum & Chem. Sales
Reynolds Metals Co.

Framing, Metal, Etc.

(See Enclosures.)

Furnaces, Electric

Bergman-Marshall Co.
Blakely, Charles A.
Bruce-Emmett Co.
E. B. Cook Co.
E & M Equipment
General Elec. Co.
Graybar Electrical Co., Inc.
W. E. Kirk Co.
Incandescent Supply Co.
Kuhlman Elec. Co., Detroit Elec. Furnace Div.
Montgomery Bros.
Randolph Engineering Corp.
Smedley & Associates, A. B.
Lombard Smith Co.
Westinghouse Elec. Corp.
Wilcox, E. A.
Wilt, O. B.

Fuse Clips

Bussmann Mfg. Co.
Elec. Specialty Co.
General Electric Supply Co.
Graybar Elec. Co., Inc.
Incandescent Supply Co.
Maddox Sales Co.
Monarch Electric Corp.
Phillips & Edwards Elec. Corp.
Southern States Equip. Corp.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Fuses

Agencies Co.
Anderson Co., Kenneth
Arthur & Allen
Baxter Co.
Benz Co., Fred D.
The Frank H. Bran Co.
Brill Electric Sales
Bruce-Emmett Co.
Bussmann Mfg. Co.
Cairepco
Carpenter Co., Allen B.
A. B. Chance Co.
Chase-Shawmut Co.
Collins-Gillett Co.
Dawson Co., Jim
deLeuze Co., Guy
Dougherty Enterprises
Eagle Elec. Mfg. Co., Inc.
Earl S. Condon Co.
Economy Fuse
Div. Federal Pac. Elec. Co.
The Electric Corp.
Electrical Specialty Co.
Federal Pacific Elec. Co.
Garnett Young & Co.
General Electric Co.
General Electric Supply Co.
Gough Industries, Inc.
Graybar Elec. Co., Inc.
Hartley, Barney H.
Hendrey Co., W. R.
Hodges & Glomb
Geo. E. Honn Co.
Incandescent Supply Co.
Industrial Eng. & Equip Corp.
C. E. Ingalls & Sons
James R. Kearney Corp.
Kearns Co., James L.
Keeler White
Killark Elec. Mfg. Co.
Kirk Co., W. E.
Levin, M.
Line Material Industries, Div.
McGraw-Edison Co.
Matzinger-Johnson Co.
Maydwell & Hartzell, Inc.
Monarch Electric Corp.
Motorman Supply Co.
F. M. Nicholas Co.
Ormond, John
Phillips & Edwards Elec. Corp.
Pomeroy Co., J. G.
R T & E Corp.
Randolph Engineering Corp.
Royal Electric Corp.
Royal Elec. Mfg. Co. Inc.
Rising, Inc., H. G.
S & C Elec. Co.
Southern States Equip. Corp.
Square D Co.
Stubbs Electric Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Fuse, Cutouts and Links

Chance Co., A. B.
Chase-Shawmut Co.
G & W Elec. Specialty Co.
Garnett Young & Co.
General Electric Co.
Graybar Elec. Co., Inc.
Hubbard & Co.
Incandescent Supply Co.
Ingalls & Sons, C. E.
Kearney Corp., James R.
Line Material Industries
Maydwell & Hartzell, Inc.
Monarch Electric Corp.
Phillips & Edwards Elec. Corp.
R T & E Corp.
Randolph Engineering Corp.
S & C Electric Co.
Westinghouse Elec. Corp.

Virtually every individual with vital influence in buying electrical equipment for the over $1 billion a year Western electrical market reads ELECTRICAL WEST.

Generators & Equipment
Allis-Chalmers Mfg. Co.
Artwel Elec., Inc.
Bellove Co.
Carlson Sales, Inc.
Control Switches Inc.
Dalton, C. R.
Davidson & Assoc., Joe
Easterbrook, H. D.
The Electric Corp.
Electric Specialty Co.
Electro-Motive Div., General Motors Corp.
Ford Co., T. A.
General Electric Co.
Herbert Kaub & Co.
Hyatt, John
Incandescent Supply Co.
Kearns Co., James L.
Keeler, White Co.
Kurland Motors
Martin & Son, Ray L.
Metcalf & Co., Inc., James I.
Morganite, Inc.
Motorman Supply Co.
Mueller, Mark G.
Nott, L. A.
Nourse Equipment Co.
Paratech
Phillips & Edwards Elec. Corp.
Randolph Engineering Corp.
Routh Co., T. R.
Sangamo Generators, Inc.
Smedley & Associates, A. B.
Standard Electric Sales
Stubbs Elec. Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
Young & Co., Robt. A.

Generators, Steam
Allis-Chalmers Mfg. Co.,
General Electric Co.
Metcalf & Co., Inc., James I.
Westinghouse Elec. Corp.

Gloves, Protective
Best Linemen's Supply Corp.
Graybar Elec. Co., Inc.
Linemen's Supply Corp. of Calif.
Ryals Co., K. M.
Western Hdwe. & Tool Co.
Wicx-Merit Glove Co.

Grinders, Portable
General Electric Supply Co.
Graybar Electrical Products Co.
Maddox Sales Co.
Nicholas Co., F. M.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Grips, Pulling-in
Barth Co.
Cope Div. Rome Cable
Cunningham & Son, R. E.
Dicke Tool Co.
Fargo Mfg. Co.
Graybar Elec. Co.
Greenlee Tool
Holan Industries Inc.
Honn Co., George E.
Kellems Co. Inc.
Klein & Sons, Mathias
Line Material Industries
Maydwell & Hartzell, Inc.
Preformed Line Products Co.
Sales Engineers Co.

Grounding Devices
Allen-Stevens Conduit Fittings Corp.
Arthur & Allen
Blackburn Corp., Jasper
Copperweld Steel Co.
Curry Co., The
Delta Star Elec. Div., H. K. Porter Co., Inc.
Eagle Elec. Mfg. Co.
Fanner Mfg. Co.
General Electric Supply Co.
Graybar Elec. Co., Inc.
Incandescent Supply Co.
Kearney Corp., James R.
Kirk Co., W. E.
Kortick Mfg. Co.
Maydwell & Hartzell, Inc.
O. Z. Elec'l Mfg. Co.
Pacific Utilities Supply Co.
Phillips & Edwards Elec. Corp.
Jim Shirreffs Co.
Sierra Electric Corp.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Ground Rods
Jasper Blackburn Corp.
Chance Co., A. B.
Copperweld Steel Co.
General Electric Supply Co.
Graybar Electric Co., Inc.
Hubbard & Co.
Incandescent Supply Co.
C. E. Ingalls
Insulator Dept., GE Co.
James R. Kearney Corp.
Kortick Mfg. Co.
Line Material Industries, Div. McGraw-Edison Co.
Maydwell & Hartzell, Inc.
Phillips & Edwards Elec. Corp.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Hangers—Cable—Conduit Box—Transformer
All-Steel Equipment Co.
Arthur & Allen
Baxter Co.
Bran Co., Frank H.
Burndy Corp.
Crouse-Hinds Co.
Cope, T. J., Div. Rome Cable Corp.
de Leuze Co., Guy
Electrical Fittings Corp.
Fullman Mfg. Co.
General Electric Co.
General Electric Supply Co.
Graybar Electric Co., Inc.
Geo. E. Honn Co.
Hodges & Glomb
Hubbard & Co.
Hughey & Phillips, Inc.
Incandescent Supply Co.
Industrial Tubular Equip. Co.
ITEECo
James R. Kearney Corp.
Kortick Mfg. Co.
Line Material Industries, Div. McGraw-Edison Co.
Litecor, Inc.
Maddox Sales Co.
Metzinger-Johnson Co.
Maydwell & Hartzell, Inc.
National Electric Div. H. K. Porter Co., Inc.
Nat'l Tele. Supply Co.
Nicholas Co., Fred
O. Z. Electrical Mfg. Co.
Payne & Sloan, Inc.
Phillips & Edwards Elec. Corp.
Randolph Eng. Corp.
Jim Shirreffs Co.
Square D Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Heat Pump
(See Pump Heat.)

Heaters, Air
American Elec. Heat & Air Con. Corp.
Arvin Industries, Inc.
Baxter Co.
Benz Co., Fred D.
Berko Elec. Mfg. Co.
Bran Co., Frank H.
Bruce-Emmett Co.
Cabot & Associates, Matt
Ceilheat, Inc.
Cole Elec. Co.
Condon Co., Earl S.
E. B. Cook Co.
Coombs, Inc. O. W.
E & M Equipment
The Electric Corp.
Electromode
Electrend Prod. Corp.
EverWarm, Inc.
Florentine Co.
General Electric Co.
General Electric Supply Co.
Gough Industries, Inc.
Graybar Electric Co., Inc.
Howard & Assoc., G. M.
Incandescent Supply Co.
Keeler White
W. E. Kirk Co.
Lennox Industries, Inc.
Levin, M.
Markel Elec. Prod., Inc.
Miller, George
Montgomery Bros. Inc.
Pace-Turpin & Co.
Pacific Electric Sales
Phillips & Edwards Elec. Corp.
Pozza Dalla, Andy
Randolph Engineering Corp.
Jim Shirreffs Co.
Stevens Sales
Stubbs Electric Co.
Swan Mfg. Co.
Thallon, Robert
Thermador Elec'l Mfg. Co.
Titan Sales Corp.
Tweedy, R. E.
Wesix Elec. Heater Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
Wiegand Co., Edwin L.
Williams Equipment & Controls
Wilt Co., O. B.
Yund Co., W. J.

Heaters, Baseboard
Arvin Industries, Inc.
American Elec. Heat & Air Con. Corp.
Berko Elec. Mfg. Co.
Ceilheat, Inc.
Electro-Ray Mfg. Co.
Graybar Electric Co., Inc.
Hill & Dietrick
Howard & Goepp Co.
Incandescent Supply Co.
King Elec. Mfg. Co.
Markel Electric Prod., Inc.
Meier Electric
Montgomery Bros. Inc.
Phillips & Edwards Elec. Corp.
Ramco Mfg. & Eng. Co.
Roberson, Inc.
Swan Mfg. Co.
Jim Shirreffs Co.
Tennessee Plastics, Inc.
Thermador Elec'l Mfg. Co.
Wesix Elec. Heater Co.
Wiegand Co., Edwin L.

Heaters, Industrial
American Elec. Heat & Air Con. Corp.
Electromode Div. Com'l Controls
General Electric Co.
General Electric Supply Co.
Graybar Electric Co., Inc.
Incandescent Supply Co.
Kilbury Mfg. Co. Inc.
Kirk Co., W. E.
Bontgomery Bros., Inc.
Morrison-Pelsue Co.
Phillips & Edwards Electric Corp.
Rising, Inc., H. G.
Rockbestos Prod. Corp.
Jim Shirreffs Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
Wiegand Co., Edwin L.

Heaters, Portable
American Elec. Heat & Air Con. Corp.
Arvin Industries, Inc.
Baraba, E. J. G.
Berko Elec. Mfg. Co.
Cabot & Associates, Matt
Ceilheat, Inc.
The Electric Corp.
Electromode Div. Com'l. Controls
General Electric Co.
General Electric Supply Co.
Graybar Elec. Co., Inc.
Gough Industries, Inc.
Howard & Assoc., G.M.
Incandescent Supply Co.
Keeler, White Co.
Lennox Industries, Inc.
Markel Electric Prod., Inc.
Meier Electric
Montgomery Bros. Inc.
Phillips & Edwards Electric Corp.
Rising, Inc., H. G.
Smith, Lombard
Thermador Elec'l Mfg. Co.
Wesix Elec. Heater Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
Wiegand Co., Edwin L.

Heating Element
Acra Electric Corp.
Brill Electric
E. B. Cook Co.
Driver-Harris Co.
Eagle Electric Mfg. Co. Inc.
Electric Switches, Inc.
General Electric Co.
General Electric Supply Co.
Gough Industries, Inc.
Graybar Electric Co., Inc.
G & W Elec. Specialty Co.
Industrial Eng. & Equip. Co.
W. E. Kirk Co.
Maddox Sales Co.
Montgomery Bros.
Jim Shirreffs Co.
Thermador Elec'l Mfg. Co.
Wesix Elec. Heater Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
Wiegand Co., Edwin L.

Heating Element, Infrared
Electric Switches, Inc.
Graybar Electric Co., Inc.
Kirk Co., W. E.
Montgomery Bros.
Westinghouse Elec. Corp.
Wiegand Co., Edwin L.

Heating Pads
General Electric Co.
General Electric Supply Co.
Graybar Elec. Co., Inc.
Incandescent Supply Co.
Phillips & Edwards Electric Corp.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Hoists (See Derricks)

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Graybar Electric Co., Inc.
Incandescent Supply Co.
Magnes Co., Geo. R.
F. M. Nicholas Co.
Payne & Sloan, Inc.
Phillips & Edwards Elec. Corp.

Hose, Flexible Metallic
American Brass Co.
American Metal Hose Div.
Graybar Elec. Co., Inc.
Peterson Co., F. Somers

Housings (See Enclosures)

Incandescent Fixtures & Accessories
Allied Industries
Arthur & Allen
Ashton, William J.
Babcock, Stephen
Bach Electric, Pete
Backer, James J.
Baum, R. E.
Baxter Co., The
Benjamin Elec. Div.
Benz Co., Fred D.
Blakely, Charles A.
Bran Co., Frank H.
Bruce-Emmett Co.
Cabot & Associates, Matt
Carpenter Co., Allen B.
Commercial Lighting Equip. Co.
Congdon Co., Don
E. B. Cook
Coombs, Inc., O. W.
Crouse-Hinds Co.
Darger Co.
Dawson Co., Jim
Day Brite Lighting
deLeuze Co., Guy
E. J. S. Lighting Corp.
The Electric Corp.
General Electric Supply Co.
Gleason & Assoc., Don S.
Gough Industries, Inc.
Graybar Electric Co., Inc.
Gratiot Co., C. B.
Habitat, Inc.
Hamilton Associates
Hartley, Barney H.
Hodges & Glomb
Holophane Co., Inc.
Hooey Co., M. J.
Imhof, E. J.
Incandescent Supply Co.
Jones, Robert E.
Killark Elec. & Mfg. Co.
Kirlin Co.
Line Material Industries, Div., McGraw-Edison Co.
Maydwell & Hartzell, Inc.
Maddox Sales Co.
McGuire, W. A.
Neo-Ray Prod., Inc.
F. M. Nicholas Co.
Noack, Martin
Noel, Ray
Nu Art Lighting & Mfg. Co.
Pacific Industries
Parker, A. R.
Parrish & Justice Co.
Penning, J. R.
Perdue, A. L.
Peterson Co., E. L.
Phillips & Edwards Elec. Corp.
Pomeroy Co., J. G.
Revere Elec. Mfg. Co.
Schulter Co., John
Sheeter & Co.
Jim Shirreffs Co.
Slusser Co., L. M.
Smoot-Holman Co.
Solen Co., Albert M.
Stearns Sales Co.
Steber Mfg. Co. of Calif.
Stevens Sales
Thallon, Robert
Tweedy Co., R. E.
Virden Co., John C.
Wagner, M. A.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
Will, E. A.

Infrared Equipment
Bellove Co.
Calif. Ultraviolet Co.
Davidson & Assoc., Joe
E & M Equipment
Electric Switches, Inc.
Fostoria Corp.
General Electric Supply Co.
Gough Industries, Inc.
Graybar Electric Co.
Hanover Lamp Div.
Imhof, E. J.
Incandescent Supply Co.
Kaufmann, Leo
W. E. Kirk Co.
McDaniel, C. W.
Montgomery Bros. Inc.
Phillips & Edwards Elec. Corp.
Steber Mfg. Co. of Calif.
Stubbs Elec. Co.
Westinghouse Elec. Corp.
Wiegand Co., Edwin L.

Instrument, Measuring and Recording
(See Ammeters, Ohmeters, Voltmeters)

Insulating Materials
American Steel & Wire Co.
Anaconda Wire & Cable Co.
Anthony Co., F. M.
Arthur & Allen
Baxter Co.
Benz Co., Fred D.
Best, Ken H.
Bran Co., Frank H.
Brill Electric Sales
Calrepco
Cook Co., E. B.
Cunningham & Son, R. E.
DuPont de Nemours Co., E. I.
Electric Motor Supply
Electrical Sales Co.
Electro-Tech. Products Div., Sun Chemical Corp.
Ford Co., Inc., T. A.
Federal Pacific Electric Company
General Cable Corp.
General Electric Co.
General Electric Supply Co.
Gough Industries, Inc.
Gray Co., George A.
Graybar Electric Co.
G & W Elec. Specialty Co.
Hendrey Co., W. R.
Honn Co., Geo. E.
Howe & Howe Sales
Incandescent Supply Co.
Industrial Eng. & Equip. Corp.
Ingalls & Sons, C. E.
Johns-Manville Dutch Brand
Kaufman, Jack
Knox Porcelain Corp.
C. D. LaMoree
Levin, M.
Lynn & Brooks
Motorman Supply Co.
F. M. Nicholas Co.
Paratech
Pacific Electric Sales
Phillips & Edwards Elec. Corp.
Rome Cable, Div. Alcoa
Sierra Elec. Corp.
Spencer & Co., C. H.
Stroum Co. Inc., S. N.
Stubbs Electric Co.
Tri-State Supply Corp.
Westinghouse Electric Corp.
Williams Equip. & Controls
Wrathall & Krusi

Insulation
DuPont de Nemours Co., E. I.
General Cable Corp.
General Electric Co.
Graybar Electric Co.
Incandescent Supply Co.
Johns-Manville Dutch Brand
Kerite Co.
C. D. LaMoree
Lapp Insulator Co.
Phillips & Edwards Elec. Corp.
Rome Cable, Div. Alcoa
Sierra Elec. Corp.
Tri-State Supply Corp.
U. S. Rubber Co.
Victor Insulators, Inc.
Westinghouse Electric Corp.
Westinghouse Elec. Supply Co.
Wrathall & Krusi

Insulators, Glass
Anthony Co., F. M.
Arthur & Allen
Baxter Co.
Best Linemen's Supply Corp.
Brewer-Titchener Corp.
Chance Co., A. B.
Condon Co., Earl S.
Empire Metal Products Co.
General Electric Supply Co.
Gough Industries
Graybar Electric Co.
Hobelmann & Co. Inc.
Incandescent Supply Co.
Industrial Eng. & Equip. Co.
Kimble Glass Co.
Line Material Industries, Div. McGraw-Edison Co.
Matzinger-Johnson Co.
Maydwell & Hartzell, Inc.
Stubbs Electric Co.
Wood Co., Thomas
Wrathall & Krusi

Insulator Hardware
(See Fittings, Insulators)

Insulators, Porcelain
Allied Industries
Anthony Co., F. M.
Arthur & Allen
Baxter Co.
Best Linemen's Supply Corp.
Brewer-Titchener Corp.
Bruce-Emmett Co.
Chance Co., A. B.
Dawson Co., Jim
Delta Star Elec. Div., H. K. Porter Co., Inc.
Earl S. Condon Co.
Electric Service Works
Empire Metal Products Co.
General Electric Co.
General Electric Supply Co.
Gorman, F. W.
Gough Industries, Inc.
Gray Co., George A.
Graybar Electric Co.
Geo. E. Honn Co.
Hubbard & Co.
Incandescent Supply Co.
Industrial Eng. & Equip. Corp.
Ingalls & Sons, C. E.
Insulator Dept., G. E. Co.
I-T-E Circuit Breaker Co.
W. E. Kirk Co.
Kortick Mfg. Co.
La Moree, C. D.
Lapp Insulator Co.
Line Material Industries, Div. McGraw-Edison Co.
Insulator Dept., GE
Lynn & Brooks
Matzinger-Johnson Co.
Maydwell & Hartzell, Inc.
Nicholas Co., F. M.
Ohio Brass Co.
Pacific Electric Sales
Pinco Div. Joslyn Mfg. & Supply
Pomeroy Co., J. G.
Porcelain Products Co.
R & M Sales
T. R. Routh Co. Sales Engineers Inc.
Shirreffs Co., Jim
Smith Sales Inc.
Stroum Co. Inc., S. N.
Stubbs Electric Co.
Thomas Works, Div. H. K. Porter Co., Inc.
Victor Insulators, Inc.
Westinghouse Electric Corp.
Westinghouse Elec. Supply Co.
Wilcox, E. A.

Intercommunicating Systems
(See Communication Systems)

Ironers
Gough Industries, Inc.
General Electric Co.
General Electric Supply Co.
Hotpoint Div. GE
Westinghouse Electric Corp.

Kitchen Hoods
Graybar Elec. Co., Inc.
Keeler, White Co.
Swanson Mfg. Co.

Kitchens, Steel—Sectional Units
General Electric Co.
Hornstein Bros.
Hotpoint Div., GE
Thermador Elec. & Mfg. Co.
Westinghouse Elec. Corp.

Knobs, Porcelain, Plastic
Allied Industries
Davies Molding Co., Harry
Delta-Star Electric Div., H. K. Porter Co. Inc.
General Electric Supply Co.
Gits Metal Molding Co., J. P.
Gray Co., George A.
Graybar Electric Co.
Hubbard & Co.
Incandescent Supply Co.
Line Material Industries, Div. McGraw-Edison Co.
Littrell Hardware Lines, Inc.
Maydwell & Hartzell, Inc.
F. M. Nicholas Co.
Phillips & Edwards Elec. Corp.
Porcelain Products Co.
Sierra Elec. Corp.
Shirreffs Co., Jim
Thomas Works, Div. H. K. Porter Co., Inc.
Westinghouse Electric Corp.
Westinghouse Elec. Supply Co.

Labels, Identification, etc.
Emblem Tape and Label Co.
Tri-State Supply Corp.

Ladders, Hydraulic, Aerial
Arthur & Allen
Delta-Star Elec. Div. H. K. Porter Co., Inc.
FWD Co., The
McCabe Powers Body Co.
Holan Corp., The J. H.
Petersen Eng. Co.
Truco
Utility Body Co.

Lamp Guards
Crouse-Hinds Co.
Day-Brite Lighting, Inc.
General Electric Supply Co.
George A. Gray Co.
Graybar Elec. Co.
Incandescent Supply Co.
Line Material Industries, Div. McGraw-Edison Co.
Maddox Sales Co.
McGill Mfg. Co.
Phillips & Edwards Elec.Corp.
J. G. Pomeroy Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Lamps, Health & Sun
Benjamin Elec. Div.
Brill Electric Sales
California Ultraviolet Co.
General Elec. Co.
General Electric Supply Co.
Gough Industries, Inc.
Graybar Elec. Co.
Hanover Lamp Div.
Incandescent Supply Co.
Phillips & Edwards Elec. Corp.
Sperti-Faraday
Westinghouse Elec. Co.
Westinghouse Elec. Supply Co.

Lamp Holders, Receptacles
Cook Co., E. B.
Curtis AllBrite Lighting, Inc.
General Elec. Co.
General Electric Supply Co.
George A. Gray Co.

Graybar Elec. Co.
Hodges &Glomb
Halzmueller Corp.
Hubbell, Inc., Harvey
Incandescent Supply Co.
Matzinger-Johnson Co.
Maddox Sales Co.
Pass & Seymour, Inc.
Phillips & Edwards Elec. Corp.
J. G. Pomeroy Co.
Royal Electric Corp.
Royal Elec. Mfg. Co. Inc.
Jim Shirreffs Co.
Sierra Elec. Corp.
Steber Mfg. Co. of Calif.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Lamps, Fluorescent

Acme Lite Products Co.
Ashton, William J.
Bach Associates
Begen Co., M.
Brill Electric Sales
California Ultraviolet Co.
Collins-Gillette Co.
Commercial Lighting Equip. Co.
Dawson Co., Jim
deLeuze Co., Guy
The Electric Corp.
General Elec. Co.
General Electric Supply Co.
Gough Industries, Inc.
Graybar Elec. Co., Inc.
Gratiot Co., C. B.
Holzmueller Corp.
Howard & Assoc., G.M.
Incandescent Supply Co.
Kaufman, Leo
Luxo Lamp Corp.
Noack, Martin
Phillips & Edwards Elec. Corp.
Stubbs Elec. Co.
Westinghouse Elec. Corp.

Lamps, Incandescent

Ashton, William J.
Bach Associates
Begen Co., M.
The Frank H. Bran Co.
Brill Electric Sales
Bruce-Emmett Co.
Collins-Gillette Co.
Dawson Co., Jim
deLeuze Co., Guy
The Electric Corp.
General Elec. Co.
General Electric Supply Co.
Gratiot Co., C. B.
Graybar Elec. Co.
Hanover Lamp Div.
Holzmueller Corp.
Howe & Howe Sales
Incandescent Supply Co.
Kaufmann, Leo
Line Material Industries, Div. McGraw-Edison Co.
Luxo Lamp Corp.
Perdue, A. L.
Phillips & Edwards Elec. Corp.
Jim Shirreffs Co.
Stubbs Electric Co.
Versen Co., Kurt
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Lamps, Mercury Vapor

Benjamin Elec. Mfg. Co.
The Electric Corp.
General Elec. Co.
General Electric Supply Co.
Graybar Elec. Co.
Incandescent Supply Co.
Kaufmann, Leo
Pacific Utilities Supply Co.
Phillips & Edwards Elec. Corp.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Lamps, Portable, Clamp

Begen Co., M.
Bussmann Mfg. Co.
Crouse-Hinds Co.
Day-Brite Lighting, Inc.
deLeuze Co., Guy
Edstrom, J. E.
General Electric Supply Co.
Gough Industries, Inc.
Graybar Elec. Co., Inc.
Holzmueller Corp.
Howard & Assoc., G.M.
Incandescent Supply Co.
Kaufmann, Leo
Kirk Co., W. E.
Luxo Lamps
Northwest Sales Co.
Perdue, A. L.
Phillips & Edwards Elec. Corp.
Royal Electric Corp
Royal Elec. Mfg. Co. Inc.
Jim Shirreffs Co.
Stubbs Electric Co.
Versen Co., Kurt
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Lamp Replacers

Geo. A. Gray Co.
Graybar Elec. Co.
Incandescent Supply Co.
Line Material Industries, Div. McGraw-Edison Co.
Phillips & Edwards Electric Corp.
J. G. Pomeroy Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
Wrathall & Krusi

Lamp, Spot

(See Floodlights)

Leather Goods

Best Linemen's Supply Co.
General Electric Supply Co.
Graybar Elec. Co., Inc.
Klein & Sons, Mathias
Linemen's Supply Corp. of Calif.
Maydwell & Hartzell, Inc.
Safety Line Tool Co.
Western Hardware & Tool Co.
Wicx-Merit Glove Co.

Letters & Figures

Best Linemen's Supply Corp.

Lighting Equipment

Abolite Lighting Div.
All-Brite Lighting Div.
Allied Industries, Inc.
Appleton Elec. Co.
Arthur & Allen
Babcock, Stephen
Bach Associates
Bach Co., Pete
Baxter Co.
Benjamin Elec. Mfg. Co.
Benz Co., Fred D.
Blakely, Charles A.
Bran Co., Frank H.
Bruce-Emmett Co.
BullDog Electric Prod.
Cabot & Associates, Matt
Collyer Ins. Wire Co.
Commercial Lighting Equip. Co.
Congdon Co., Don
E. B. Cook Co.
Coombs, Inc., O. W.
Crouse-Hinds Co.
Curtis-AllBrite Lighting, Inc.
Day-Brite Lighting, Inc.
deLeuze Co., Guy
The Electric Corp.
Fisher-Pierce Co. Inc.
General Elec. Co.
General Electric Supply Co.
Gleason & Associates, Don
Globe Lighting Prod., Inc.
Gough Industries, Inc.
Geo. A. Gray Co.
Gratiot Co., C. B.
Graybar Elec. Co.
Hartley, Barney H.
Hodges & Glomb
Holophane Co., Inc.
Holzmueller Corp.
Howard & Goepp Co.
Imhof, E. J.
Incandescent Supply
Jones, Robt. E.
Killark Elec. Mfg. Co.
Leadlight Fixture Co.
Line Material Industries, Div. McGraw-Edison Co.
Lighting Dynamics
Maddox Sales Co.
Markel Elec. Prod., Inc.
Maydwell & Hartzell, Inc.
McGuire, W. A.
Moe Light Div. Thomas Industries
Mundstock, James
Myers Electric Products Inc.
Noack, Martin
Neo-Ray Products, Inc.
Nicholas Co., F. M.
Noel, Ray
Nu-Art Lighting Mfg. Co.
Parker, A. R.
Parrish & Justice Co.
Peerless Electric & Mfg. Co.
Peerless Elec. Div., H. K. Porter Co. Inc.
Perfect-Line Mfg. Corp.
Perdue, A. L.
Peterson, E. L.
Pfaff & Kendall
Phillips & Edwards Elec. Corp.
J. G. Pomeroy Co.
RLM Standards Institute, Inc.
Royal Electric Mfg. Co. Inc.
S & M Lamp Co.
Sheeter & Co.
Jim Shirreffs Co.
Smedley & Associates, A. B.
Smoot-Holman Co.
Staible & Sons, Fred E.
Square D Co.
Stanley Sales Corp.
Stearns Sales Co.
Steber Mfg. Co. of Calif.
Stevens Sales

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The New LUXO Illuminated Magnifier Combines Magnification (4X), Cool Fluorescent Light, and Maneuverability Into One Versatile Unit.

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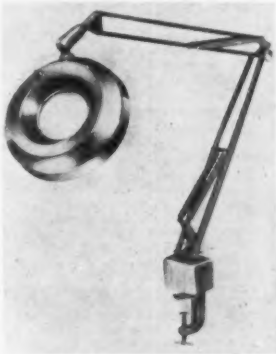

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Model LFM-1

- 5" Diameter Glass Lens
- 2 Extension Arms, 360° Sweep, 45" Reach
- Lamp: 22 Watt Circline T9 Fluorescent Tube
- Color: Grey
- UL and CSA Approved

"COMBO" THREE WAY LAMP
$30.50 List (A-bracket included, less tube)

- Incandescent - fluorescent light in one fixture
- Proper color rendition
- Adjusts easily to any position
- Has two extension arms— 360° sweep and 45" reach
- Essential for color work

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Thallon, Robert
Virden Co., John C.
Wagner, M. A.
Wakefield Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
Will, E. A.
Wrathall & Krusi, Inc.

Lighting Equipment, Outdoor

All-Brite Lighting Div.
Allied Industries
Appleton Elec. Co.
Arthur & Allen
Ashton, William J.
Bach Associates
Bach Co., Pete
Baxter Co.
Benjamin Elec. Mfg. Co.
Benz Co., Fred D.
Blakely, Chas. A.
Bran Co., Frank H.
Bruce-Emmett Co.
Cabot & Associates, Matt
Carpenter Co., Allen B.
Collyer Ins. Wire Co.
Commercial Lighting Equip. Co.
Congdon Co., Don
E. B. Cook Co.
Coombs, Inc., O. W.
Crouse-Hinds Co.
Curtis-AllBrite Lighting, Inc.
Darger Co.
Dawson Co., Jim
deLeuze Co., Guy
Eichorn & Melchior
The Electric Corp.
Fisher-Pierce Co. Inc.
Garrison & Co.
General Elec. Co.
General Electric Supply Co.
Globe Lighting
Gough Industries, Inc.
Gray Co., George A.
Graybar Elec. Co.
Gratiot Co., C. B.
Hamilton Associates
Hartley, Barney H.
Hodges & Glomb
Holophane Co., Inc.
Holzmueller Corp.
Howard & Goepp Co.
Hubbard & Co.
Hughey & Phillips, Inc.
Imhof, E. F.
Incandescent Supply Co.
Jones, Robt. E.
Keeler White
Killark Elec. Mfg. Co.
Line Material Industries, Div. McGraw-Edison Co.
Maddox Sales Co.
Matzinger-Johnson Co.
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Metcalf & Co., Inc., James I.
Moe Lighting Div. Thomas Industries
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Parker, A. R.
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Penning, J. R.
Perfect-Line Mfg. Corp.
Pfaff & Kendall
Phillips & Edwards Elec. Corp.
Pomeroy Co., J. G.
Pope, Forrest E.
Revere Elec. Mfg. Co.
R L M Standards
Schulter, John
Sheeter & Co.
Jim Shirreffs Co.
S & M Lamp Co.
Slusser Co., L. M.
Smoot-Holman Co.
Square D Co.
Stanley Sales Corp.
Stearns Sales
Steber Mfg. Co. of Calif.
Sterner Industries, Inc.
Stevens Sales
Stubbs Electric Co.
Stumph Co., J. H.
Tweedy Co., R. E.
Virden Co., John C.
Wagner, M. A.
Wallace Co., Walter E.
Western Power Products, Inc.
Westinghouse Elec. Corp.
Will, E. A.
Wood Co., Thomas S.
Wrathall & Krusi, Inc.

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de Leuze Co., Guy
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General Electric Supply Co.
Graybar Elec. Co., Inc.
Holophone Co., Inc.
Incandescent Supply Co.
Inland Glass Co.
Line Material Industries, Div. McGraw-Edison Co.
Maddox Sales Co.
Nicholas Co., F. M.
Phillips & Edwards Elec. Corp.

Lighting, Theatrical
Cole & Co., C. W.,
Guth Co., Edwin F.
Hartley, Barney H.
Hub Electric Co.
Holtzmueller Corp.
Kliegl Bros.
Mundstock, James
Neo-Ray Products
Perdue, A. L.
Pomeroy Co., J. G.
Sherriffs Co., Jim
Stoneco Elec. Products

Lighting, Underwater
Crouse-Hinds Co.
General Electric Co.
General Electric Supply Co.
Graybar Elec. Co., Inc.
Incandescent Supply Co.
Maddox Sales Co.
Phillips & Edwards Elec. Corp.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Lightning Arresters
(See Arresters)

Line Material
Anderson Elec. Corp.
Brewer-Titchener Co.
Chance Co., A. B.
Gedney Elec. Co.
General Electric Supply Co.
Graybar Elec. Co.
Hubbard & Co.
Incandescent Supply Co.
Industrial Eng. & Equip. Corp.
James R. Kearney Corp.
Joslyn Mfg. and Supply Co.
Kortick Mfg. Co.
Line Material Industries, Div. McGraw-Edison Co.
Insulator Dept., GE Co.
Malleable Iron Fittings Co.
Maydwell & Hartzell, Inc.
National Elec. Prod. Co.
Pacific Utilities Supply Co.
Penn-Union Elec. Corp.
Phillips & Edwards Elec. Corp.
Preformed Line Products Co.
Randolph Engineering Corp.
Ryals Co., K. M.
Shirreffs Co., Jim
Wrathall & Krusi
Western Hardware & Tool Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Lineman's Tools
Archibald & Millie
Best Linemen's Supply Co.
Briegel Method Tool Co.
Buckingham Mfg. Co.
A. B. Chance Co.
Collins-Gillette Co.
Ford Co., T. A.
Graybar Elec. Co., Inc.
Hogg & Davis
Incandescent Supply Co.
Kearney Corp., James R.
Mathias Klein & Sons
Linemen's Supply Corp. of Calif.
Maddox Sales Co.
Maydwell & Hartzell, Inc.
National Electric Supply Co.
Pacific Utilities Supply Co.
Parrish & Justice
Petersen Eng. Co.
Phillips & Edwards Elec. Corp.
Pomeroy Co., J. G.
Porcelain Products, Inc.
Pozza, Dalla Andy
Randolph Engineering Corp.
R. & M Sales
Ryals Co., K. M.
Safety Live Line Tool Co.
Stroum Co. Inc., S. N.
Stubbs Electric Co.
Wells Co., Wayne C.
Western Hardware & Tool Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Load Centers
Allis-Chalmers Mfg. Co.
Arthur & Allen
Artwel Electric, Inc.
Columbia Electric Mfg. Co.
Federal Pacific Electric
General Electric Co.
General Switch Corp.
Graybar Elec. Co., Inc.
Hodges & Glomb
Incandescent Supply Co.
Kirk Co., W. E.
Moloney Elec. Co.
Murray Mfg. Co.
Phillips & Edwards Elec. Corp.
Sorgel Electric Co.
Square D Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Louvres, Lighting
Arthur & Allen
Arthur & Krause
Benjamin Elec. Mfg. Co.
Cabot & Associates, Matt
deLeuze Co., Guy
English, R. C.
Fleischer, Ora
Graybar Elec. Co., Inc.
Hexcel Products, Inc.
Incandescent Supply Co.
Lilly Co., A. E.
Maddox Sales Co.
McGillan Sales Co.
Mundstock, James
Neo-Ray Products, Inc.
Peerless Elec. Co.
Jim Shirreffs Co.
Sierra Electric Corp.
Stevens Sales Co.
Sunbeam Lighting Co.

Lugs
Anderson Electric Corp.
Anthony Co., F. M.
Arthur & Allen
Blackburn Corp., Jasper
The Frank H. Bran Co.
Buchanan Elec. Prod. Corp.
BullDog Elec. Products Co.
Burndy Corp.
Delta Star Elec. Div.
Dossert Mfg. Corp.
The Electric Corp.
Electrical Specialty Co.
General Elec. Co.
Graybar Elec. Co.
Geo. E. Honn Co.
Incandescent Supply Co.
Industrial Eng. & Equip. Corp.
Ingalls & Sons, C. E.
Insulator Dept., G. E. Co.
I-T-E Circuit Breaker Co.
W. E. Kirk Co.
Kortick Mfg. Co.
Levin, M.
Maddox Sales Co.
National Elec. Prod. Co.
F. M. Nicholas Co.
O. Z. Electrical Mfg. Co.
Pacific Utilities Supply Co.
Penn-Union Elec. Corp.
Phillips & Edwards Elec. Corp.
Royal Elec. Mfg. Co. Inc.
Safety Switchboard Co.
Square D Co.
Watteredge Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
Wrathall & Krusi

Luminous Ceiling
American Light & Ceiling Co.
Benjamin Elec. Mfg. Co.
Bran Co., Frank
Bricker, Bernard E.
Cabot & Associates, Matt
Cloos, Gregg N.
deLeuze Co., Guy
Graybar Elec. Co., Inc.
Harvey, Barney H.
Hexcel Products Inc.
Jones, Robt. E.
Luminous Ceilings, Inc.
Maddox Sales Co.
Mundstock, James Merrill, David M.
Nicholas Co., F. M.
Jim Shirreffs Co.

Markers
Best Linemen's Supply Co.
Buckingham Mfg. Co.
Linemen's Supply Corp. of Calif.
General Elec. Co., Chemical Dept.
Graybar Elec. Co., Inc.
Maddox Sales Co.
Rising, Inc., H. G.
Tri-State Supply Corp.

Measuring Wheels & Meters
Columbia Products, Inc.
Graybar Elec. Co., Inc.
Murray Mfg. Co.
Rolatape, Inc.

Metal Cabinets, Lockers, Frames
Columbia Products, Inc.
Curry Co.
George A. Gray Co.
Graybar Elec. Co., Inc.
Unistrut Products Co.

OLYMPIC WIRE METERS
Reels & Accessories
Weights & Measures Approved
Accurate & Efficient
National Wire & Cable Corp., 136 San Fernando Rd., Los Angeles 31;
Ernest F. Hauch, 1282 Folsom St., San Francisco 3.
Olympic Instruments, Inc.
Vashon, Wash.

Meters
Artwel Elec., Inc.
C. C. Blacksmith
Columbia Products, Inc.
Curry Co.
Duncan Elec. Mfg. Co.
The Electric Corp.
General Elec. Co.
General Electric Supply Co.
Graybar Elec. Co.
Geo. E. Honn Co.
Incandescent Supply Co.
Nott, L. A.
Olympic Instruments, Inc.
Phillips & Edwards Elec. Corp.
Pomeroy Co., J. G.
Rising, Inc., H. G.
T. R. Routh Co.
Rowan Controller Co.
Sangamo Elec. Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Meter Mounting Devices
Anchor Mfg. Co.
Blakeman Bros. Elec. Mfg. Co., Inc.
Duncan Electric Co., Inc.
Elggren, John
Michel Brothers
Murray Mfg. Co.
Muth-Richards Co.
Nicholas, Fred M.
Reed & Co., L. S.
Tudor & Associates

Meter Sockets, Troughs & Accessories
Alwalt Mfg. Co.
Brill Electric Sales
Duncan Elec. Co.
The Electric Corp.
General Elec. Co.
General Electric Supply Co.
Graybar Elec. Co., Inc.
Incandescent Supply Co.
Industrial Engr. & Equip. Corp.
Meter Devices
Nicholas Co., Fred
Nott, L. A.
Phillips & Edwards Elec. Corp.
Sangamo Electric Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Meter Testing Equipment
Artwel Elec., Inc.
Best Linemen's Supply Corp.
Blecksmith, C. C.
Duncan Electric Mfg. Co.
Eastern Specialty Co., The
Eichorn & Melchior
General Electric Co.
General Electric Supply Co.
Graybar Electric Co.
Incandescent Supply Co.
Kearns Co., James L.
Knopp, Inc.
Meter Devices
Nott, L. A.
Phillips & Edwards Elec. Corp.
Routh Co., T. R.
Sales Engineers, Inc.
Sangamo Electric Co.
States Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co

Mica
Electrical Specialty Co.
General Elec. Co.
C. D. LaMoree
Tri-State Supply Corp.
Westinghouse Elec. Corp.

Mica, Manufactured Products
Electric Specialty Co.
C. D. La Moree
Sierra Elec. Corp.
Tri-State Supply Corp.

Microwave—and Applications
General Electric Co.
General Electric Supply Co
Graybar Electric Co., Inc.
ITT-Kellogg
Lenkurt Electric Co. Inc.
Maydwell & Hartzell, Inc.
Motorola, Inc.
Prodelin, Inc.
Westinghouse Electric Corp.
Westinghouse Elec. Supply Co

Motor Brushes
Carbon Engineering
General Electric Co.
Silverman, Roy
Tri-State Supply Corp.
Wesco Electrical Distributors
Westinghouse Elec. Corp.

Motors
Acec Elec. Corp.
Allis Co., Louis
Artwel Elec., Inc.
Allis-Chalmers Mfg. Co.
Backer Co., James L.
Bellilove Co.
Brown-Boveri Corp.
Carlson Sales, Inc.
Carns & Hoagland
Combinator Sales Div., Kurland Motors
Control Switches, Inc.
Dalton, E. R.
Dav'dson Associates, Joe
Edstrom, J. E.
Electra Motors, Inc.
The Electric Corp.
Electric Motor Supply
Electrical Specialty Co.
General Elec. Co.
General Electric Supply Co.
Gough Industries, Inc.
Graybar Elec. Co.
Herbert Kaub & Co.
Howe & Howe Sales
Incandescent Supply Co.
Kurland Motors
Long & Associates
Motorman Supply Co.
Mueller, Mark G.
Nott, L. A.
Nourse Equipment Co.
Pace-Turpin Co.
Peerless Elec. Div., H. K. Porter Co. Inc.
Phillips & Edwards Elec. Corp.
Rising, Inc., H. G.
Routh Co., T. R.
Sangamo Generators, Inc.
Silverman, Roy
Smedley & Assoc., A. B.
Lombard Smith Co.
Southern States Equip. Corp.
Stevens Sales
Stolaroff Co., M. A.
Stroum Co. Inc., S. N.
Stubbs Electric Co.
Tweedy Co., R. E.
Wagner Elec. Corp.
Wesco Electrical Distributors
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
Williams Equip. & Controls
Young & Co., Robt. A.

Motor Control Equipment
Allen Bradley Co.
Allis-Chalmers Mfg. Co.
Arthur & Allen
Artwel Electric, Inc.
The Frank H. Bran Co.
Brown-Boveri Corp.
Columbia Electric Mfg. Co.
Clark Controller Co.
E. B. Cook Co.
Combinator Sales Div., Kurland Motors
Crouse-Hinds Co.
The Electric Corp.
Esco Mfg. Co.
Federal Pacific Elec. Co.
Furnas Electric Co.
General Elec. Co.
General Electric Supply Co.
Graybar Elec. Co.
Herbert Kaub & Co.
Incandescent Supply Co.
Kirk Co., W. E.
Kurland Motors
National Elec. Div., H. K. Porter Co. Inc.
Nelson Elec. Mfg. Co.
Phillips & Edwards Elec. Corp.
Rising, Inc., H. G.
T. R. Routh Co.
Square D Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
Young & Co., Robt. A.

Motors, Fractional hp.
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Brown-Boveri Corp.
Electra Motors Inc.
Electrical Specialty Co.
General Electric Co.
General Electric Supply Co.
Graybar Elec. Co., Inc.
Howard Industries, Inc.
Incandescent Supply Co.
Phillips & Edwards Elec. Corp.
Rising, Inc., H. G.
Silverman, Roy
Wagner Elec. Corp.
Wesco Electrical Distributors
Westinghouse Elec. Corp.

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The Electric Corp.
Incandescent Supply Co.
Phillips & Edwards Elec. Corp.
Silverman, Roy
Wesco Electrical Distributors

Motors Generators
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Artwell Electric, Inc.
Brown-Boveri Corp.
Combinator Sales Div., Kurland Motors
General Electric Co.
Graybar Elec. Co.
Herbert Kaub & Co.
Kurland Motors
Westinghouse Elec. Corp.

Motor Winding—Repair Equipment
Arthur & Allen
Buchanan Elec'l Prod. Co.
Electric Motor Supply
Electrical Specialty Co.
Gough Industries Inc.
Incandescent Supply Co.
Kearns Co., James L.
Maddox Co., John H.
Maddox Sales Co.
Motorman Supply Co.
Nicholas Co., F. M.
Phillips & Edwards Elec. Corp.
Rising, Inc., H. G.
Silverman, Roy
Tri-State Supply Co.
Wesco Electrical Distributors

Nails & Staples, Nuts, Screws
Allied Industries, Inc.
Buchanan Elec. Prod. Corp.
Copperweld Steel Co.
Duggan Co., E. J.
Fullman Mfg. Co.
General Electric Supply Co.
Gray Co., George
Graybar Elec. Co., Inc.
Incandescent Supply Co.
Ingalls & Sons, C. E.
Keeler, White Co.
Kortick Mfg. Co.
Line Material Industries, Div. McGraw-Edison Co.
James Mundstock
Maydwell & Hartzell, Inc.
Nicholas Co., Fred
Payne & Sloan, Inc.
Phillips & Edwards Elec. Corp.
Southwestern Agencies
Thiel Tool Engineering Co.

Nuclear Reactors
Allis-Chalmers Mfg. Co.
Atomics International Div., North American Aviation
General Electric Co.
Graybar Elec. Co.
Kaiser Engineers
Westinghouse Elec. Corp.

Oil, Lubricating
Electro Compound Co.
Enjay Co.
General Electric Supply Co.
Shell Oil Co.
Standard Oil Co.

Oil, Transformer & Switch
General Elec. Co.
General Electric Supply Co.
Graybar Elec. Co., Inc.
Line Material Industries, Div. McGraw-Edison Co.
Shell Oil Co.
Standard Oil Co.
Westinghouse Electric Corp.
Westinghouse Elec. Supply Co.

Outlets, Hanger
Benjamin Elec. Mfg. Co.
General Electric Co.
General Electric Supply Co.
Graybar Elec. Co., Inc.
Hubbell, Inc., Harvey
Incandescent Supply Co.
Maddox Sales Co.
National Elec. Prod. Corp.
Pass & Seymour, Inc.
Phillips & Edwards Elec. Corp.

Paint, Heat Resisting
L. B. Allen Co.
Standard Oil Co.
Subox, Inc.
Tri-State Supply Corp.
Wrathall & Krusi

Paint, Insulating
General Electric Co.
General Electric Supply Co.
Graybar Elec. Co., Inc.
Dan Kamphausen Co.
LaMoree, L. D.
Montgomery Brothers Inc.
Subox, Inc.
Wrathall & Krusi

Paint, Transmission Poles
Dan Kamphausen Co.
Subox, Inc.
Wrathall & Krusi

Paint, Tree
Bartlett Mfg. Co.
Graybar Elec. Co., Inc.
Dan Kamphausen Co.
Subox, Inc.
Wrathall & Krusi, Inc.

Panels, Radiant Heat
(See Radiant Heat)

Panel Boards & Instruments
Adam Elec. Co., Frank
Allied Industries
Arthur & Allen
Benjamin Elec. Mfg. Co.
BullDog Elec. Products Co.
Columbia Electric Mfg. Co., Inc.
Crouse-Hinds Co.
Eichorn & Melchior
The Electric Corp.
Electrical Sales Co.
Federal Pacific Elec. Co.
Garrison & Co.
General Elec. Co.
General Electric Supply Co.
Graybar Elec. Co.
Hampden Engineering Corp.
Hodges & Glomb
Incandescent Supply Co.
Johns-Manville
W. E. Kirk Co.
Meyers Safety Switch Co.
National Electric Div., H. K. Porter Co. Inc.
Phillips & Edwards Elec. Corp.
T. R. Routh Co.
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Safety Switchboard Co.
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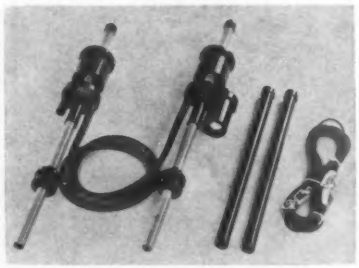

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Rheostats

Allen-Bradley Co.
General Electric Co.
General Elec. Supply Co.
Graybar Electric Co.
Honn Co., Geo. E.
Incandescent Supply Co.
Ohio Carbon Co.
Phillips & Edwards Elec. Corp.
Rising, Inc., H. G.
Ryals Co., K. M.
S & C Electric Co.
Square D Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Rings, Cable

A. B. Chance Co.
Copperweld Steel Co.
Everstick Anchor Co.
General Elec. Supply Co.
Graybar Electric Co.
Hubbard & Co.
Insulator Dept., GE Co.
Line Material Industries, Div. McGraw-Edison Co.
National Tel. Supply Co.
Sierra Elec. Co.

Roasters

General Electric Co.
General Elec. Supply Co.
Graybar Electric Co.
Hotpoint Div. GE
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Rods, Anchor & Guy

A. B. Chance Co.
Everstick Anchor Co.
Copperweld Steel Co.
Empire Metal Prod. Co.
Graybar Elec. Co.
General Elec. Co.
General Elec. Supply Co.
Honn Co., Geo.
Hubbard & Co.
Incandescent Supply Co.
Ind. Eng. & Equip. Co.
Insulator Dept., GE Co.
James R. Kearney Corp.
Kortick Mfg. Co.
Line Material Industries, Div. McGraw-Edison Co.
Maydwell & Hartzell, Inc.
Phillips & Edwards Elec. Corp.
Ryals Co., K. M.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Rubber Products

Best Linemen's Supply Corp.
Earl S. Condon Co.
Graybar Elec. Co., Inc.
Johns-Manville
Line Material Industries, Div. McGraw-Edison Co.
Linemen's Supply Corp. of Calif.
Western Hardware & Tool Co.
Wicx Merit Glove Co.

Rural Line Hardware

Anderson Elec. Corp.
Jasper Blackburn Corp.
A. B. Chance Co.
General Electric Supply Co.
Graybar Elec. Co.
Honn Co., George E.
Hubbard & Co.
Industrial Eng. & Equip. Corp.
Insulator Dept., GE Co.
James R. Kearney Corp.
Killark Elec. Mfg. Co.
Kortick Mfg. Co.
Lapp Insulator Co.
Line Material Industries, Div. McGraw-Edison Co.
Maydwell & Hartzell, Inc.
Nat'l Elec. Prod. Corp.
Nicholas Co., F. M.
Ohio Brass Co.
Pacific Utilities Supply Co.
Porcelain Products, Inc.
Penn-Union Elec. Corp.
Ryals Co., K. M.
Western Hardware & Tool Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
Wrathall & Krusi

Safety Equipment

Agencies Co.
Allied Industries
Best Linemen's Supply Corp.
Buckingham Mfg. Co.
A. B. Chance Co.
R. E. Cunningham & Son
Everley Co., Paul S.
Fibre Metal Pacific, Inc.
Ford Co., Inc., T. A.
General Electric Supply Co.
Graybar Elec. Co.
Geo. E. Honn Co.
Industrial Eng. & Equip. Corp.
Kearns Co., James L.
Kearney Corp., James R.
Mathias Klein & Sons
Linemen's Supply Corp. of Calif.
Maddox Co., John H.
Shirreffs Co., Jim
Maydwell & Hartzell, Inc.
Pacific Utilities Supply Co.
R & M Sales
Safety Electric Equipment Co.
Stubbs Electric Co.
Wells, Wayne C.
Western Electro Mechanical
Western Hardware & Tool Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
Wicx-Merit Glove Co.

Scaffolds

Benz Co., Fred D.
Graybar Elec. Co., Inc.

Screws, Rivets

Graybar Elec. Co., Inc.
Kortick Mfg. Co.
Westinghouse Elec. Corp.

Seals (See Fastening Devices)

Service Organizations

American Tel. & Tel. Co.
Bechtel Corp.
Certified Equipment Manufacturers
Fluor Corp., Ltd.
Northwest Elec. Light & Power Association
Pacific Coast Elec'l Assn.
Pacific Gas & Elec. Co.
Parsons Co., Ralph M.
RLM Standards Institute, Inc.
So. Calif. Edison Co., Ltd.

Signals

Benjamin Elec. Mfg. Co.
Condon Co., Earl S.
Crouse-Hinds Co.
Econolite Corp.
Edwards Co., Inc.
General Elec. Co.
The Electric Corp.
George A. Gray Co.
Graybar Elec. Co.
Hughey & Phillips, Inc.
Incandescent Supply Co.
Lynch Communications Systems, Inc.
Nicholas Co., F. M.
Phillips & Edwards Elec. Corp.
Pomeroy Co., J. G.
Sierra Elec. Corp.
Sperti-Faraday
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Signs, Electrical

Day-Brite Lighting, Inc.
General Electric Supply Co.
Linemen's Supply Co. of Calif.
Pfaff & Kendall

Sirens

Edwards Co., Inc.
The Electric Corp.
General Electric Supply Co.
Geo. A. Gray Co.
Graybar Elec. Co.
Incandescent Supply Co.
Nicholas Co., F. M.
Phillips & Edwards Elec. Corp.
Sperti-Faraday
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Sleeves, Repair

Graybar Elec. Co., Inc.
Mend-It-Sleeve Mfg. Co.
Tri-State Supply Corp.

Sleeves, Wire Splicing

Aluminum Co. of America
Anaconda Wire & Cable
Anthony Co., F. M.
Buchanan Elec'l Prod. Corp.
Burndy Eng. Co.
Electrical Specialty Co., Inc.
Graybar Elec. Co.
Incandescent Supply Co.
Jas. R. Kearney Corp.
C. D. La Moree
Line Material Industries, Div. McGraw-Edison Co.
Maydwell & Hartzell, Inc.
Mend-It-Sleeve Mfg. Co.
National Tele. Supply Co.
Nicholas Co., F. M.
Penn-Union Elec. Corp.
Phillips & Edwards Elec. Corp.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Sockets

Anchor Mfg. Co.
Benjamin Elec. Mfg. Co.
Brill Elec. Sales
Cook Co., E. B.
Eagle Elec. Mfg. Co.
The Electric Corp.
Eiggren, John
General Elec. Co.
Graybar Elec. Co., Inc.
Hubbell Inc., Harvey
Line Material Industries, Div.
Michel Brothers
Muth-Richards Co.
Nott, L. A.
Pass & Seymour
Pomeroy Co., J. G.
Reed & Co., L. S.
Royal Electric Corp.
Royal Elec. Mfg. Co. Inc.
Jim Shirreffs Co.
Sierra Elec. Corp.
Silverman, Roy
Tudor & Associates
Wesco Electrical Distributors
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Solders, All Types, & Soldering Equipment

L. B. Allen Co.
Alpha Metals, Inc.
Coffin, E. C.
General Elec. Co.
Graybar Elec. Co.
Gratiot Co., C. B.
Incandescent Supply Co.
Kester Solder Co.
Maddox Sales Co.
Phillips & Edwards Elec. Corp.
Rising, Inc., H. G.
Tri-State Supply Corp.
Wilcox, George P.

Solenoids

Allen-Bradley Co.
American Solenoid
Artwel Elec. Inc.
Automatic Switch Co.
The Electric Corp.
General Electric Co.
General Elec. Supply Co.
Graybar Elec. Co., Inc.
Incandescent Supply Co.
Kearns Co., James L.
Knopp, Inc.
Phillips & Edwards Elec. Corp.
Rising, Inc., H. G.
Roebling's Sons Co., John A.
Square D Co.
Struthers-Dunn
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Spacers, Underground Duct
Allied Industries, Inc.
Arthur & Allen
Graybar Elec. Co., Inc.
Maydwell & Hartzell, Inc.
Sierra Elec. Corp.
Soapstone Duct Co.

Splices, Kits and Equipment
American Steel & Wire
Amp, Inc.
Anderson Electric Corp.
Anthony Co., F. M.
Buchanan Electrical Products Corp.
Cam Lock Div.
Burndy Corp.
Condon Co., Earl S.
Electrical Specialty Co.
Empire Products, Inc.
Fanner Mfg. Co.
Fargo Mfg. Co.
G&W Elec. Specialty Co.
Graybar Elec. Co., Inc.
Guire, H. C.
Honn Co., George E.
Husky Products, Inc.
Ingalls & Sons, C. E.
Indiana Steel & Wire
Joslyn Mfg. & Supply
Kaiser Alum. & Chem. Corp.
Kearney Corp., James R.
Line Material Industries
Matzinger-Johnson Co.
Maydwell & Hartzell, Inc.
Pacific Utilities Supply
Penn Union Electric Corp.
PLM Products, Inc.
Preformed Line Products
Russgreen Mfg. Co.
Ryals Co., K. M.
Thomas & Betts Co.
Wrathall & Krusi, Inc.

Staples (See Nails, Staples)

Staplers (See Fastening Devices)

Starters, Fluorescent Lamp
Bach Electric Pete
The Frank Bran Co.
Commercial Lighting Equip. Co.
Clark Controller Co.
deLeuze Co., Guy
General Elec. Co.
General Electric Supply Co.
Graybar Elec. Co.
Hub Electric Mfg. Co.
Hubbell, Inc., Harvey
Incandescent Supply Co.
C. E. Ingalls & Sons
Nelson Elec. Mfg. Co.
Noack, Martin
Phillips & Edwards Elec. Corp.
Pomeroy Co., J. G.
Royal Electric Corp.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Starters, Motor, Electric
Allen-Bradley Co.
Allis-Chalmers Mfg. Co.
The Electric Corp.
Federal Pacific Electric
Furnas Elec. Co.
General Electric Supply Co.
Graybar Elec. Co., Inc.
Incandescent Supply Co.
Nelson Elec. Mfg. Co.
Phillips & Edwards Elec. Corp.
Randolph Engineering Corp.
Rising, Inc., H. G.
Square D Co.
Westinghouse Electric Corp.
Westinghouse Elec. Supply Co.

Starters, Magnetic
Allen-Bradley Co.
Cook Co., E. B.
Federal Pacific Electric Co.
Furnas Electric
Incandescent Supply Co.
Jones Co., J. Henry
Phillips & Edwards Elec. Corp.
Rising, H. G.
Smith Co., Lombard
Square D Co.
Westinghouse Electric Corp.

Stokers
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Strand, Guy
Copperweld Steel Co.
Graybar Elec. Co.
Incandescent Supply Co.
Indiana Steel & Wire Co.
Ingalls, C. E., & Sons
Insulator Dept., GE Co.
Line Material Industries, Div.
McGraw-Edison Co.
Pacific Utilities Supply Co.
Page Steel & Wire Div.
Phillips & Edwards Elec. Corp.
Maydwell & Hartzell, Inc.
Roebling's Sons Co., John A.
Southern Electrical Co.

Straps, Conduit, Cable (See Supports)
Fisher-Pierce Co.

Straps, Safety (See Belts and Safety Equip.)

Street Lighting Controls
Acme Wire Co.
Econolite Corp.
Fisher-Pierce Co
General Electric Co.
General Electric Supply Co.
Graybar Electric Co., Inc.
Ingalls & Sons, C. E.
Industrial Eng. & Equip. Corp.
Maydwell & Hartzell, Inc.
Precision Multiple Controls
Randolph Engineering Corp.
Ripley Co., Inc.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
Wrathall & Krusi

Street Lighting Equipment
Benjamin Elec. Mfg. Div.
The Electric Corp.
Garrison & Co.
General Elec. Co.
General Electric Supply Co
Graybar Elec. Co., Inc.
Holophane Co., Inc.
Hubbard & Co.
Incandescent Supply Co.
Line Material Industries, Div
McGraw-Edison Co.
Maddox Sales Co.
Metcalf & Co., Inc., James I.
Pacific Utilities Supply Co.
Pfaff & Kendall
Phillips & Edwards Elec. Corp
Pomeroy Co., J. G.
Weld-Rite Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
Wrathall & Krusi

Stringing Equipment
Holub Industries, Inc.
Hubbard & Co.
Joslyn Mfg. & Supply
Klein & Son, Mathias
Line Material Industries
Matzinger-Johnson Co.
Peterson Engineering Co.
Safety Live Line Tool Co.
Sherman & Reilly, Inc.
Watteredge Co.
Western Power Products, Inc.

Structural Steel Products
American Steel & Wire Div.
Benz Co., Fred
Bethlehem Steel Co.
Columbia-Geneva Steel Div.
Gate City Steel
Honn Co., Geo. E.
Industrial Eng. & Equip. Corp.
U.S. Steel Corp.
Watteredge Co.
Weld-Rite Co.

Substations, Outdoor and Indoor
Allis-Chalmers Mfg. Co.
Arthur & Allen
Columbia Electric Mfg. Co., Inc.
Delta Star Elec. Div.,
H. K. Porter Co., Inc.
The Electric Corp.
Federal Pacific Elec. Co.
General Elec. Co.
Graybar Elec. Co., Inc.
Honn Co., Geo. E.
Ingalls & Sons, C. E.
I-T-E Circuit Breaker Co.
W. E. Kirk Co.
Line Material Industries, Div.
McGraw-Edison Co.
Moloney Elec.
National Electric Div.,
H. K. Porter Co., Inc.
Randolph Engineering Corp.
Royal Elec. Mfg. Co., Inc.
Ryals Co., Ken
S & C Electric Co.
Sorgel Elec. Co.
Southern States Equip. Corp.
Stubbs Electric Co.
Westinghouse Elec. Supply Co.
Westinghouse Elec. Corp.

Substations, Unit
Allis-Chalmers Mfg. Co.
Arthur & Allen
Columbia Electric Mfg. Co., Inc.
Easterbrook, H. D.
The Electric Corp.
Esco Mfg. Co.
Federal Pac. Elec. Co.
General Elec. Co.
Graybar Elec. Co.
Honn Co., Geo. E.
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Supports, Bus-Bar
Anderson Electric Corp.
Arthur & Allen
Burndy Eng'g Co.
Chance Co., A. B.
Delta Star Elec. Div.,
H. K. Porter Co., Inc.
Dossert Mfg. Corp.
The Electric Corp.
Feedrail Corp.
General Elec. Co.
Graybar Elec. Co.
Hodges & Glomb
Honn, Geo. E.
ITEECO
Industrial Eng. & Equip. Corp.
Ingalls & Sons, C. E.
Insulator Dept., GE Co.
James R. Kearney Corp.
W. E. Kirk Co.
Lapp Insulator Co.
Line Material Industries, Div.
McGraw-Edison Co.
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Porcelain Insulator
Porcelain Products, Inc.
Royal Elec. Mfg. Co., Inc.
Ryals Co., K. M.
Square D Co.
Victor Insulators, Inc.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
Wrathall & Krusi

Supports, Spacers, Cable
Allied Industries
Cope, T. J., Div. Rome Cable Corp.
Condon Co., Earl S.
Dossert Mfg. Corp.
Efficiency Electric & Mfg. Co.
Graybar Elec. Co., Inc.
Honn Co., George E.
Hughey & Phillips, Inc.
Husky Products, Inc.
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P-W Industries, Inc.
Randolph Eng. Corp.
Victor Specialties, Inc.
Westinghouse Elec. Corp.

Supports, Conduit
Arthur & Allen
Bacon's Elec'l Equip.
Benz Co., Fred D.
Crouse-Hinds Co.
Dossert Mfg. Corp.
Efficiency Electric & Mfg. Co.
Eichorn & Melchior
Elggren, John E.
Gedney Electric Co.
Graybar Elec. Co.
Hayjax Co.
Hill, George W.
Hodges & Glomb
Honn Co., Geo. E.
Incandescent Supply Co.
Industrial Tubular Equip. Co.
Line Material Industries, Div.
McGraw-Edison Co.
Matzinger-Johnson Co.
Phillips & Edwards Elec. Corp.
Jim Shirreffs Co.
Stanley Sales Corp.
Victor Specialties, Inc.
Westinghouse Electric Corp.
Westinghouse Elec. Supply Co.

Supports, Crane Rail
Arthur & Allen
Delta Star Elec. Co., Div.
H. K. Porter Co., Inc.
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Feedrail Corp.
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Sierra Elec. Corp.
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Westinghouse Electric Corp.
Westinghouse Elec. Supply Co.

Switchboards
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Allen-Bradley Co.
Allied Industries, Inc.
Allis-Chalmers Mfg. Co.
Ambrosini, A. T.
Artwell Electric, Inc.
Bergman,Marshall Co., Inc.
Belilove Co.
BullDog Elec. Products Co.
Carlson Sales, Inc.
Columbia Electric Mfg. Co., Inc.
Cook, E. B.
Earl S. Condon Co.
Darger Co.
Dawson Co., Jim
The Electric Corp.
Electrical Material Co.
Electrical Sales
Federal Pacific Elec. Co.
General Elec. Co.
General Electric Supply Co.
Gough Industries, Inc.
Graybar Elec. Co.
Hodges & Glomb
Holzmueller Corp.
Honn Co., Geo. E.
Hyatt, John
Incandescent Supply Co.
I-T-E Circuit Breaker Co.
Herbert Kaub & Co.
Kearns Co., James L.
W. E. Kirk Co.
Lyman, Oliver B.
Marsh Agencies, Inc.
Martin & Son, Ray L.
Meyers Safety Switch Co., Inc.
Muth-Richards
Mundstock, James
Mueller, Mark G.
National Electric Div.,
H. K. Porter Co., Inc.
Phillips & Edwards Elec. Corp.
Randolph Engineering Corp.
Safety Switchboard Co.
Sierra Switchboard Co.
Smith Co., Lombard
Square D Co.
Stevens Sales
Stone, Carlos
Stubbs Electric Co.
Western Switchboard Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
Robt. A. Young & Co.

Switches, Appliance
The Electric Corp.
Electric Switches, Inc.
General Elec. Co.
Howard & Assoc., G. M.
Incandescent Supply Co.
Phillips & Edwards Elec. Corp.
Rising, Inc., H. G.
Silverman, Roy
Sierra Elec. Corp.
State Elec. Mfg. Co.
Wesco Electrical Distributors

Switches, Circuit Breaker Type
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Westinghouse Elec. Supply Co.

Switches, Clock Controlled
Burcham Co., Don H.
Edwards Co., Inc.
General Electric Co.
Graybar Elec. Co.
Howard & Assoc., G. M.
Incandescent Supply Co.
Line Material Industries, Div.
McGraw-Edison Co.
Maydwell & Hartzell, Inc.
L. A. Nott
Phillips & Edwards Elec. Corp.
Pomeroy Co., J. G.
Ripley Co., Inc.
Rising, Inc., H. G.
Silverman, Roy
Sierra Elec. Corp.
Sangamo Electric Co.
The States Co.
Wadsworth Elec. & Mfg. Co.
Wesco Electrical Distributors
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Switches, Disconnect
Agencies Co.
Allied Industries
Arthur & Allen
Arthur & Krause
Artwel Electric, Inc.
Bach Associates
Best, Ken H.
Brill Electric Sales
Bruce-Emmett Co.
Carlson Sales, Inc.
A. B. Chance Co.
Cole Electric Co.
Earl S. Condon Co.
Control Switches, Inc.
Crouse-Hinds Co.
Dalton, C. R.
Davidson Associates, Joe
Delta Star Elec. Div.
H. K. Porter Co., Inc.
Eagle Electric Mfg. Co., Inc.
Eicher & Co.
Eichorn & Melchior
The Electric Corp.
Electric Motor Supply
Electrical Sales
Electrical Specialty Co.
Federal Pacific Electric
G & W Elec. Specialty Co.
General Elec. Co.
General Electric Supply Co.
General Switch Corp.
Gough Industries, Inc.
Graybar Elec. Co.
Hodges & Glomb
Honn Co., Geo. E.
Horning Sales, Bill
Incandescent Supply Co.
Industrial Eng. & Equip. Corp.
C. E. Ingalls & Sons
I-T-E Circuit Breaker Co.
Kaufman, Jack
KPF Electric Co.
Kearney Corp., James R.
Keeler White
Killark Elec. Mfg. Co.
W. E. Kirk Co.
Line Material Industries, Div.
McGraw-Edison Co.
Lyman, Oliver B.
Matzinger-Johnson Co.
Maydwell & Hartzell, Inc.
Montgomery Bros., Inc.
Murray Mfg. Corp.
McDougall Co., J. C.
National Electric Div.,
H. K. Porter Co., Inc.
Northwest Sales Co.
Pennsylvania Transformer Co.
Phillips & Edwards Elec. Corp.
Polich, Inc., Andrew L.
Pope, Forrest E.
Randolph Engineering Corp.
Rising, Inc., H. G.
Royal Elec. Mfg. Co. Inc.
Ryals Co., K. M.
S & C Elec. Corp.
Safety Switchboard Co.
Schwager-Wood
Smedley & Associates, A. B.
Smith Sales, Inc.
Southern States Equip. Co.
Square D Co.
Stevens Sales
Stubbs Electric Co.
Turner Electric Corp.
Wadsworth Elec. & Mfg. Co.
Wells Co., Wayne Co.
Western Power Products, Inc.
Western Switchboard Co.
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.
Wrathall & Krusi
Young Co., Robt. A.

Switches, Fixture
Circle F Mfg. Co.
Eagle Elec. Mfg. Co., Inc.
Eichorn & Melchior
General Elec. Co.
General Electric Supply Co.
Graybar Elec. Co.
Hubbell, Inc., Harvey
Incandescent Supply Co.
Killark Elec. Mfg. Co.
McGill Mfg. Co.
Phillips & Edwards Elec. Corp.
Pomeroy Co., J. G.
Silverman, Roy
Rising, Inc., H. G.
Sierra Elec. Corp.
Wesco Electrical Distributors
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Switches, Float
Allen-Bradley Co.
The Electric Corp.
General Elec. Co.
Graybar Elec. Co., Inc.
Incandescent Supply Co.
Phillips & Edwards Elec. Corp.
Rising, Inc., H. G.
Sperti-Faraday
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Switches, Flush, Toggle, or Tumbler
Allen-Bradley Co.
Allied Industries
Bran Co., Frank H.
Circle F Mfg. Co.
Eagle Elec. Mfg. Co., Inc.
The Electric Corp.
General Elec. Co.
General Electric Supply Co.
Graybar Elec. Co., Inc.
Hubbell, Inc., Harvey
Incandescent Supply Co.
Matzinger-Johnson Co.
Montgomery Bros.
Phillips & Edwards Elec. Corp.
Porcelain Prods., Inc.
Rising, Inc., H. G.
Silverman, Roy
Sierra Elec. Corp.
Wesco Electrical Distributors
Westinghouse Elec. Corp.
Westinghouse Elec. Supply Co.

Switches, Fuse
Agencies Co.
Arthur & Allen
Artwel Electric, Inc.
Brill Electric Sales
Bruce-Emmett Co.
BullDog Electric Mfg. Co.
A. B. Chance Co.
Control Switches, Inc.
Crouse-Hinds Co.
Davidson Associates, Joe
Delta-Star Elec. Div.
H. K. Porter Co., Inc.
Eagle Electric Mfg. Co., Inc.
The Electric Corp.
Electric Motor Supply
Electrical Sales
Electrical Specialty Co.
Federal Pacific Elec. Co.
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Industrial Eng. & Equip. Corp.
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Kearney Corp., James R.
Keeler White
W. E. Kirk Co.
Line Material Industries, Div.
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National Electric Div.,
H. K. Porter Co., Inc.
Maydwell & Hartzell, Inc.
Northwest Sales Co.
Ormond, John
Payne & Sloan, Inc.
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Pope, Forrest E.
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Rising, Inc., H. G.
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Square D Co.
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Stevens Sales
Stubbs Electric Co.
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Westinghouse Elec. Supply Co.
Young Co., Robt. A.

Switches, Heater
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Switches, Interrupter
Arewel Electric, Inc.
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Riter Engineering Co.
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Switches, High Voltage
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Dalton, C. R.
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Horning Sales, Bill
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Royal Elec. Mfg. Co., Inc.
Ryals Co., Ken
S & C Elec. Co.
Schwager-Wood
Smedley & Associates, A. B.
Smith Sales, Inc.

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Southern States Equip. Corp.
Square D Co.
Stubbs Electric Co.
Turner Electric Corp.
Western Power Products, Inc.
Westinghouse Electric Corp.
Westinghouse Elec. Supply Co.
Wrathall & Krusi, Inc.
Young Co., Robt. A.

Switches, Magnetic

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Furnas Elec. Co.
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Gorman, Walter W.
Graybar Electric Co.
Hamlin, Inc.
Incandescent Supply Co.
McKnight Co.
National Electric Div., H. K. Porter Co., Inc.
Phillips & Edwards Elec. Corp.
Rising, Inc., H. G.
T. R. Routh Co.
Square D Co.
Westinghouse Electric Corp.
Westinghouse Elec. Supply Co.

Switches, Mercury

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Belchamber & French
Black, Ralph
Bruce-Emmett Co.
Bryant Electric Co.
Cabot & Assoc.
Eagle Elec. Mfg. Co., Inc.
Electric Switch Corp.
General Electric Co.
General Electric Supply
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H-B Instrument
Hamlin, Inc.
Hogenson, Oscar
Hubbell, Inc., Harvey
Leviton Mfg. Co.
McKnight Co.
Nash Co., A. W.
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Pomeroy Co., J. G.
Rodale Mfg. Co.
Shaffer & Nelson, Inc.
Sierra Electric Corp.
Slater Elec. & Mfg. Co.

Switches, Meter Test

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General Switch Corp.
Graybar Electric Co.
Meter Devices Co.
L. A. Nott
Square D Co.
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Westinghouse Electric Corp.
Westinghouse Elec. Supply Co.

Switches—Pressure & Temperature

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Easterbrook, H. D.
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General Electric Co.
General Electric Supply Co.
Graybar Elec. Co.
Incandescent Supply Co.
Jennings Radio Mfg. Corp.
Montgomery Bros., Inc.
Phillips & Edwards Elec. Corp.
Silverman, Roy
Square D Co.
Wesco Electrical Distributors
Westinghouse Electric Corp.
Westinghouse Elec. Supply Co.

Switches, Remote Control

Artwell Electric, Inc.
Arthur & Allen
Delta Star Elec. Div. H. K. Porter Co., Inc.
The Electric Corp.
Federal Pacific Electric
General Electric Co.
Graybar Elec. Co.
Hodges & Glomb
Incandescent Supply Co.
Keeler, White Co.
W. E. Kirk Co.
Line Material Industries, Div. McGraw-Edison Co.
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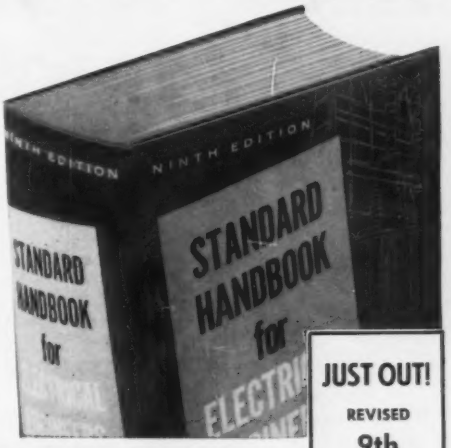

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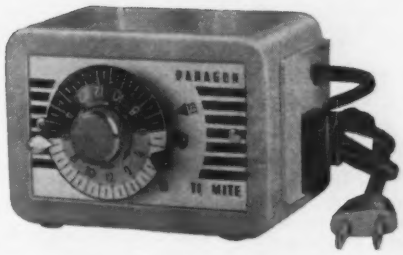

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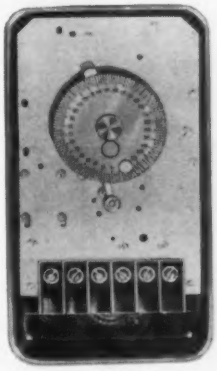
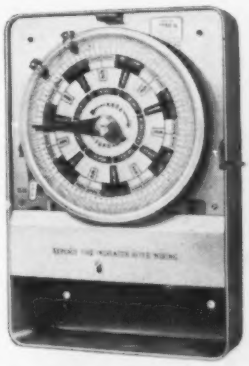


PARAGON Z SERIES are built to industrial standards. Here's a time-delay relay and automatic reset timer that finds wide use as a timer for staggered motor-load starts, conveyor control, process machinery control.



PARAGON 7000 SERIES for automatic timing on a weekly schedule. A relay-designed 4-pole switch offering double-pole — double-throw action. One model can be used for all switching combinations.

For fast delivery or complete information on any PARAGON TIMER or convenient service station location, contact Paragon's Western Branch Office, at 1226 South Atlantic Boulevard, Los Angeles, California, or your Paragon representative . . .

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Cohn & Shane, Inc.
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Cope, T. J., Div. Rome Cable Corp.
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Dougherty Enterprises
Drier Bros.
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Fibre Metal Pacific, Inc.
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Hogg & Davis
Honn Co., Geo. E.
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Kearns Co., James L.
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James R. Kearney Corp.
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Linemen's Supply Corp. of Calif.
Lippincott Co.
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Maddox Sales Co.
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Wesco Electrical Distributors
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Bach Associates
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Belilove Co.
Bran Co., Frank H.
Brown Boveri Corp.
Burcham Co., Don H.
Cabot & Associates, Matt
Cahn, Bernard
Cairepco
Carlson Sales, Inc.
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Church, L. F.
Condon Co., Earl S.
Control Switches, Inc.
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Corrin, John G.
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Darger Co.
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Esco Mfg. Co.
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Garnett Young Co.
General Electric Co.
General Elec. Supply Co.
Gorman, F. W.
Gough Industries, Inc.
Graybar Electric Co.
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Hartley, Barney H.
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Hodges & Glomb
Honn Co., Geo. E.
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Keeler, White Co.
Killark Elec. Mfg. Co.
W. E. Kirk Co.
Knopp, Inc.
Kuhlman Elec. Co.
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Maddox & Co., John
Maddox Sales Co.
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Nourse Equipment Co.
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Stevens Sales
Strohecker Inc.
Stubbs Electric Co.
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Uptegraff Mfg. Co., R. E.
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Wells Co., Wayne C.
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Wood Co., Thomas S.
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Columbia Geneva Steel Div.
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Pfaff & Kendall

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Graybar Elec. Co.
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McCabe Powers Body Co.
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Tel-E-Lect Products, Inc.
Truco
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Graybar Elec. Co.
Westinghouse Elec. Corp.
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Incandescent Supply Co.
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Phillips & Edwards Elec. Corp.
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Anaconda Wire & Cable Co.
Bran Co., Frank H.
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Rome Cable Div. Alcoa
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Pelton Div., Baldwin-Lima-Hamilton
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General Electric Co.
General Electric Supply Co.
Westinghouse Elec. Corp.
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Graybar Elec. Co.
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Thermador Elec'l Mfg. Co.
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Baldwin-Lima-Hamilton Corp. Pelton Div.
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The main characteristic of every Sorgel dry-type transformer is

QUIET QUALITY

The most complete line for every purpose

All voltages up to 15,000 volts.
All sizes ¼ Kva to 10,000 Kva.

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Rectifiers
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Control circuits
Motor starting
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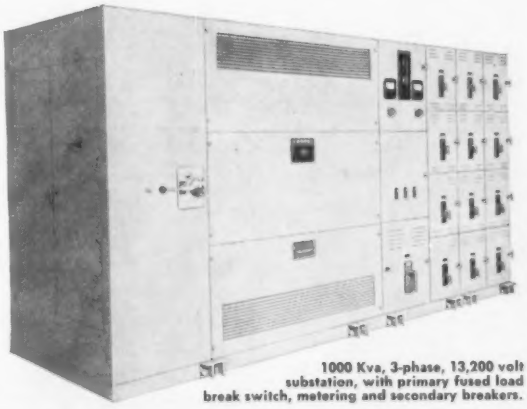
Also special transformers

3 to 2-phase furnace transformer with coarse and fine taps

45 Kva 3-phase transformer with taps. Interchangeable wall or floor mounting. Connection compartment panel removed.

Substations:

The same quiet SORGEL dry-type or Askarel-cooled transformers, in ALL ratings up to 10,000 Kva and up to 15,000 volts, are also incorporated in substations. Procurable with any type or make of switchgear, and from any electrical manufacturer.



1000 Kva, 3-phase, 13,200 volt substation, with primary fused load break switch, metering and secondary breakers.

Saturable Reactor with tap changing transformer to regulate and control electric power for any process—better, more accurately, more efficiently.

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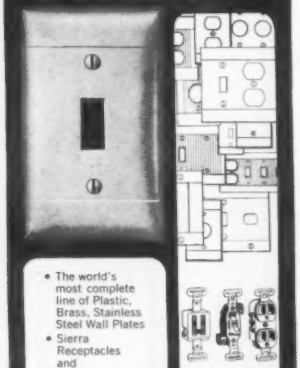
Vaults, Electrical Concrete
Christy Concrete Products
Forni Div.

Ventilators
(See Fans)

SIERRA
WALL PLATES
AND WIRING DEVICES



• The world's most complete line of Plastic, Brass, Stainless Steel Wall Plates
• Sierra Receptacles and Switches

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Westinghouse Electric Corp.
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General Electric Co.
General Electric Supply
Graybar Electric Co.
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Agencies Co.
Allied Industries
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American Steel & Wire Div.
Anaconda Wire & Cable Co.
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Backer Co., James J.
Baxter Co.
Benz Co., Fred D.
Bergman-Marshall Co., Inc.
Bran Co., Frank H.
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Bruce-Emmett Co.
Burcham Co., Don H.
Cahn, Bernard
Calhoun & Poxon
California-Geneva Steel Div.
Calrepco
Carol Cable Div., Crescent Co.
Cereske Co., William
Circle Wire & Cable
Clifton Conduit Div. General Cable
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Columbia-Geneva Steel Div.
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Cornish Wire Co., Inc.
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Dawson Co., Jim
Dougherty Enterprises
Driver-Harris Co.
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Ettco Wire & Cable Corp.
Garnett Young Co.
General Cable Corp.
General Electric Co.
General Electric Supply Co.
Gough Industries, Inc.
Gray Co., George A.
Graybar Electric Co.
Hamilton Associates
Hatfield Wire & Cable Div.
Heckendorn, Philip H.
Howard & Goepp Co.
Imholt, W. B.
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Indiana Steel & Wire Co.
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Kerite Co., The
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Lynn & Brooks
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Okonite Company, The
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Pacific Utilities Supply Co.
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Rutkin Electrical Sales
Ryals Co., K. M.
Sales Engineers, Inc.
Simplex Wire & Cable Co.
Southern Electrical Co.
Stone, Carlos
Stroum Co., Inc., S. N.
Stubbs Electric Co.
Superior Cable Corp.
Triangle Conduit & Cable Co., Inc.
Tri-State Supply Corp.
United States Steel Corp.
Western Insulated Wire Co.
Westinghouse Electric Corp.
Westinghouse Elec. Supply Co.
Young & Co., Robt. A.

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Carol Cable Div., Crescent Co.
Cereske Co., Wm.
Collyer Ins. Wire Co.
Copperweld Steel Co.
Curry Co.
Driver-Harris Co.
Electrical Specialty Co.
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Rome Cable Corp.
Simplex Wire & Cable
Westinghouse Electric Corp.
Westinghouse Elec. Supply Co.

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Incandescent Supply Co.
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Maydwell & Hartzell, Inc.
Pacific Utilities Supply Co.
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TEmplebar 2-3546

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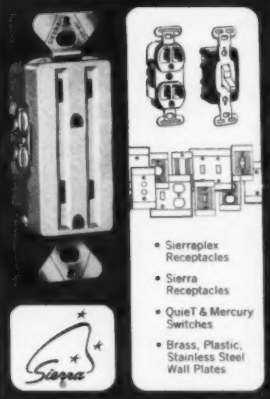
Arthur & Allen
Bach Associates
Bach Electric Co.
Baxter Co.
Bell Electric Co.
Benjamin Elec. Mfg. Co.
Benz Co., Fred D.
Jasper Blackburn Corp.

SIERRA
WIRING DEVICES
AND WALL PLATES



• Sierraplex Receptacles
• Sierra Receptacles
• QuieT & Mercury Switches
• Brass, Plastic, Stainless Steel Wall Plates

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Collins-Gillette Co.
Columbia Products, Inc.
Collyer Insulated Wire Co.
Cook Co., E. B.
Earl S. Condon Co.
Copperweld Steel Co.
Cornish Wire Co., Inc.
Crouse-Hinds Co.
Curry Co.
deLeuze Co., Guy
Dougherty Enterprises
Eagle Elec. Mfg. Co., Inc.
Eichorn & Melchior
The Electric Corp.
Electrical Specialty Co., Inc.
Essex Wire Corp.
Garrison & Co.
General Electric Co.
General Electric Supply Co.
General Cable Corp.
Gough Industries, Inc.
Geo. A. Gray Co.
Graybar Electric Co.
Honn Co., Geo. E.
Howard & Goepp Co.
Hubbard & Co.
Hubbell, Inc., Harvey
Incandescent Supply Co.
Indiana Steel & Wire Co.
Jim Shirreffs Co.
Johns-Manville
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Keeler White
Kerite Co., The
Keystone Mfg. Co.
Kortick Mfg. Co.
Levin, M.
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Lynn & Brooks
Maddox & Co., John
Maddox Sales Co.
Matzinger-Johnson Co.
Maydwell & Hartzell
Mundstock, James
Murphy-Hain Co.
National Electric Div., H. K. Porter Co., Inc.
National Tel. Supply Co.
Nicholas Co., F. M.
Olympic Instruments Corp.
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Pacific Utilities Supply
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Payne & Soan, Inc.
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Strohecker, Inc.
Stubbs Electric Co.
Superior Cable Corp.
Tri-State Supply Corp.
Wadsworth Elec. & Mfg. Co.
Weingart & Lustig
Westinghouse Electric Corp.
Westinghouse Elec. Supply Co.
Will, E. A.

Wire Installation Guns
Archibold & Millie
Vernon B. Cobb
Jet Line Products, Inc.
Lippincott Co.

Wire, Plastic
Clifton Conduit Div. Gen. Cable
Plastic Wire and Cable Corp.

Wire Pullers (See Tapes, Fish, etc.)

Wire Pulling Lubricants
Bruce-Emmett Co.
Electro Compound Co.
Electrical Fittings Corp.
Harvey Aluminum
Ideal Industries, Inc.
Imholt Co.
Payne & Sloan
Reed & Co., L. S.

ELECTROREP, INC.
Manufacturers' Representative
220 15th Street
San Francisco, California
Phone: MArket 6-0225

Wire Stringing Equipment
Jet Line Gun Co.
Joslyn Mfg. & Supply Co.
Joslyn Pacific Div.
Kellogg Switchboard & Supply
Klein & Sons, Mathias
Line Material Industries Div.
Maydwell & Hartzell, Inc.
Morrison-Pelsue Co.
Safety Live Line Tool Co.
Watteredge Co.

Wire, Strippers
Garrison & Co.
Graybar Elec. Co., Inc.
Ideal Industries, Inc.
Incandescent Supply Co.
Miller Mfg. Co.
Mathias Klein & Sons Co.
Maddox Co., John H.
Phillips & Edwards Elec. Corp.
Tomic Sales & Engineering

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ADVERTISERS AND WESTERN SALES OFFICES

Accurate Mfg. Co.
San Francisco: The Curry Co. ....YUkon 2-9081
Los Angeles: F. J. Airey Co....MAdison 3-2706
Seattle: Electric Agencies.....MAin 3-2360
Denver: L. B. Putnam Co.....TAbor 5-5066
Salt Lake City L. B. Putnam Co. ElGin 5-5558

Advance Transformer Co.
Palo Alto: Reese C. Gwillim ..DAvenport 1-5997
Los Angeles .....LUdlow 9-5591
Portland: Pete Bach Electric.....GApitol 7-2173
Denver: A. J. Nelson .....KEystone 4-6751
Medina, Wash.: Lyle Heaton .....GL 4-8696
Albuquerque .....CHapel 2-8626

Allen-Bradley Co.
Los Angeles .....ANgelus 9-9421
San Francisco: Campbell & George .....MIssion 8-1236
Denver: Young Electric .....AComa 2-4841
Albuquerque: A & A Supply.....ALpine 6-0307
Salt Lake City: Stevens Sales...INgersoll 7-5489
Phoenix: Edw. P. Weller.....AMherst 6-3188
Seattle: J. A. Tudor Associates..MUtual 2-7444
Portland: J. A. Tudor Associates.BElmont 2-1188

Allen Co., L. B.
Los Angeles:
George P. Wilcox Co.....LUdlow 3-7312
Salt Lake City: Jack Coffin Co.....CR 7-4189

Allis-Chalmers Mfg. Co.
San Francisco .....DOuglas 2-8384
Los Angeles .....MAdison 6-2231
Phoenix .....CRestwood 4-5426
Denver .....CHerry 4-6556
Salt Lake City .....EMpire 3-1723
Portland .....CApitol 2-9835
Seattle .....MAin 4-3737
Spokane .....FA 7-1581
San Diego .....BE 2-7355

Aluminum Co. of America
San Francisco .....YUkon 6-6484
Los Angeles .....HUntley 2-2684
Denver .....DUdley 8-1619
Spokane .....RIverside 7-6124
Seattle .....MAin 4-4040
Portland .....CApitol 2-9861
Boise 2-8038

Alwalt Mfg. Co.
Modesto: Circle A W Products .LAmbert 4-5281
San Francisco:
Brill Electric Sales .....MArket 6-0456
Los Angeles: Agencies Co. ...MAdison 6-5443
Phoenix: Wm. Benndorf Co. CRestwood 7-1662
Albuquerque:
Wm. Benndorf Co. .....DIamond 4-3235
Denver:
Easter-Owens Electric Co.....SPruce 7-3018
Salt Lake City.
James D. Stephens Co. .....ElGin 5-3540
Seattle: Guenther & Tate Co...ATwater 4-0373
Portland: Guenther & Tate Co. BElmont 5-4746

American Steel & Wire Div., U. S. Steel Corp.
Columbia-Geneva Steel Div. in following cities:
San Francisco .....SUtter 1-2500
Los Angeles .....LUdlow 5-1171
Portland .....CApitol 2-9534
Seattle .....MAin 2-1972
Salt Lake City .....DAvis 2-0491
Denver .....AM 6-3001

Anaconda Wire & Cable Co.
San Francisco .....PRospect 6-4111
Los Angeles .....MAdison 6-2371
Denver .....AComa 2-0616
Seattle .....MAin 3-4686
Salt Lake City .....DAvis 8-0616
Phoenix .....AMherst 0581

Anchor Manufacturing Co.
Seattle: Muth-Richards .....EAst 3-2128
Portland: Tudor & Associates...BElmont 2-1188
Denver: L. S. Reed & Co.....ALpine 5-1777
Salt Lake City: John Elggren .....AXtel 5-0472
Los Angeles: Michel Brothers RIchmond 9-7587

Anderson Electric Corp.
San Francisco: Wrathall & Krusi EXbrook 7-3593
Los Angeles: Industrial Engineering & Equip. Corp. .....DUnkirk 1-1281
Seattle: Muth-Richards Co.....EAst 3-2128
Portland: A. L. Polich, Inc. ...CApitol 3-6241
Salt Lake City: Clarence W. Silver ElGin 5-5378
Denver: Hamilton Associates.....CHerry 4-1505

Atomics International Div. North American Aviation Inc. 67

Auto Hot-Stick Rentals, Inc.
Compton, Calif. .....NEwmark 8-2773

Baldwin-Lima-Hamilton
San Francisco .....MIssion 7-6781
Los Angeles .....MAdison 6-5631
Portland .....BElmont 2-4174
Seattle .....MAdison 4-5420
Denver .....ATlas 8-2684
Salt Lake City .....HUnter 5-0293

Bartlett Manufacturing Co.
Hughson & Merton in following cities:
Los Angeles .....NO 3-3853
San Francisco .....OR 3-8243
Seattle .....AT 3-6633
Salt Lake City .....EM 3-5456

Benjamin Elec. Mfg. Co. 58
(subsidiary of Thomas Ind. Inc.)
Burlingame, Calif. .....OXford 7-1036
Los Angeles .....OVerbrook 5-8050
Portland .....CHerry 4-7214
Bellevue .....ELgin 1-6617
Spokane .....FAirfax 7-3278
Salt Lake City .....ELgin 5-2322
Denver: James Blinn Co. .....KEystone 4-8131

Biddle Trade Publishing Co.
Los Angeles .....DU 5-4211
Berkeley .....LA 4-2831
San Diego .....BE 3-7621
Seattle .....AT 2-4749

Blackburn Corp., Jasper
San Francisco: Donald E. Ingalls JUniper 6-0332
Los Angeles: Robert M. Schow HUbbard 3-7931
Vancouver, Wn.: Wm. A. Horning OXford 4-4475
Phoenix: W. C. Osborn.....WIndsor 3-1815
Denver: Sales Engineers Co.....AComa 2-4893
Salt Lake City:
James D. Stephens Co. EMpire 3-7402
Albuquerque: Ralph B. Black...AMherst 5-0144

Brown Co.
San Francisco .....YUkon 2-1986
Sold through Westinghouse Electric Supply offices below:
Los Angeles .....MAdison 9-4161
Phoenix .....ALpine 8-8211
Seattle .....MAin 3-7001
Portland .....CApitol 2-9851
Spokane .....FAirfax 8-3371
Salt Lake City .....DAvis 2-2441
San Diego: Elec. Supplies Dist. Co. .....BElmont 2-8161
Denver: Mine & Smelter Supply Co. .....KEystone 4-3111

Brown Boveri Corp.
Portland .....CApitol 3-7234
San Francisco: Belilove Co. .....YUkon 2-3713
Pasadena: A. B. Smedley .....SYcamore 8-1174
Denver: Slaybaugh-Thompson Co. AComa 2-5826
Tucson: Central Station Equip. Co. MAin 3-2493

Buchanan Electrical Products Corp.
Los Angeles: Frank Rozema ...MAdison 9-3855
Denver: Fred A. Pease Co.....DUdley 8-4643
Portland: Keeler-White .....CApitol 7-0593
Seattle: Keeler, White, Inc. .....MAin 3-2367
Vancouver, B.C., Walter McHugh..CHerry 3034

BullDog Electric Products Div.
(See listing under I-T-E Circuit Breaker Co.)

Burndy Corp.
Sheffer & Nelson, Inc. following cities:
Portland .....BElmont 4-7437
Seattle .....MUtual 2-0186
Spokane .....FAirfax 7-9528
San Francisco: George E. Honn Co. .....SUtter 1-7352
Los Angeles: Earl S. Conden Co. .....DUnkirk 1-3961
Denver: Peterson Co. .....DExter 3-5434

Burnworth Tester Co.
El Cerrito .....LAndscape 5-7599

Bussmann Mfg. Division
San Francisco .....UNderhill 3-2600
Los Angeles .....MAdison 5-1954
Seattle .....EMerson 2-2085
Denver .....FReemont 7-1357

ADVERTISERS AND WESTERN

(Continued from page 109)

Carol Cable Co., Div. Crescent Co., Inc.
San Francisco: F. M. Nicholas.....YUkon 2-1964
Los Angeles: Payne & Sloan, Inc. .MAdison 4-7317
Seattle: Bruce-Emmett Co. .....MUtual 2-6737
Portland: Bruce-Emmett Co. ....BElmont 2-8117

Central Transformer Corp.
San Francisco: F. M. Nicholas Co. .YUkon 2-1964
Glendale, Calif.: Robert A. Young & Co. .....CHapman 5-3721
Albuquerque: McGillan Sales Co. .Phone: 5-3239
Salt Lake City: Gates Co. .....ELgin 9-1101
Denver: Hubert Kaub & Co. .....MAin 3-4606
Shaffer & Nelson, Inc., in following cities:
Portland .....BElmont 4-7437
Seattle .....MUtual 2-0186
Spokane .....FAirfax 7-9528

Chance Co., A. B.
Burlingame, Calif. .....OXford 7-1545
Seattle .....MAin 3-6886
Portland .....CApitol 8-3866
Los Angeles .....LUdlow 2-6453
Bountiful, Utah .....AXtel 5-7144

Chase-Shawmut Co.
Garnett Young & Co. following Cities:
San Francisco .....DOuglas 2-4220
Los Angeles .....ADams 1-4337
Seattle .....MAin 3-0123
Portland .....CApitol 8-8478
Phoenix .....BRidge 5-7826

Christy Concrete Products, Inc.
Emeryville, Calif. .....OLympic 2-7410

Circle AW Products
(See Alwalt Mfg. Co.)

Circle Wire & Cabble Co.
Sub. of Cerro de Pasco Corp.
San Francisco: Brill Electric Sales .SUtter 1-7547
Los Angeles: Elkins Electric Agency .....ANgelus 8-3385
Seattle: Electric Agencies .....MAin 3-2360

Clifton Conduit Div., General Cable
San Francisco: The Baxter Co. ..MArket 1-8636
Los Angeles: Michel Bros. ....AXminster 2-9191
Seattle: Northwestern Agencies....MAin 3-8882
Portland: Northwest Sales Co. ..CApitol 3-5959

Collyer Insulated Wire Co.
Bruce Emmett Co. in following cities:
Seattle .....MUtual 2-6737
Portland .....BElmont 2-8117
Salt Lake City .....DAvis 2-3828
San Francisco: The Baxter Co. ..MArket 1-8636
Los Angeles: Earl S. Condon Co. DUnkirk 1-3951
Denver: Rocky Mt. Elec. Sales Co. ALpine 5-3921

Columbia Electric Mfg. Co.
San Francisco .....GA 1-6101
Los Angeles: Calhoun & Paxon Co. ..CA 5-2328
Portland: Ray L. Martin & Son .....BE 4-7448

Condon Co., Earl E.
Los Angeles .....DUnkirk 1-3951

Conduit Nipple Mfg. Co.
San Francisco: George Gray Co. .HEmlock 1-1526
Los Angeles: Hayjax Co. .....MAdison 8-5256
Portland: Pacific Elec. Sales Co. ..BElmont 5-4137
Denver: Reitz Sales Co. .....EAst 2-6200

Conduit Pipe Products Co.
Los Angeles: J. J. Schaller .....CA 3-1251
Denver: Slaybaugh-Thompson .....AC 2-5826
San Francisco: Eckert-Lloyd .....HE 1-5792
Seattle: Keeler White .....MA 3-2367
Portland: Keeler White .....CA 7-0593

Copperweld Steel Co.
San Francisco .....DOuglas 2-6979
Bellevue, Wash. .....GLencourt 4-1233

Crouse-Hinds Co.
San Francisco .....GArfield 1-5267
Los Angeles .....RIchmond 9-3189
Seattle .....ATwater 3-7262
Portland .....CApitol 7-2115
Denver .....TAbor 5-6639
Salt Lake City .....EMpire 3-5513

Curtis-AllBrite Lighting, Inc.,
Curtis Lighting Division
All-Brite Lighting Div. in following cities:
South San Francisco .....PLaza 5-7077
Monterey Park, Calif. .....ANgeles 8-1144
Seattle .....EAst 5-9600
Denver .....SKyline 6-1668

Davey Tree Surgery Co.
San Francisco .....SUtter 1-3377
Los Angeles .....MAdison 3-1929

Day-Brite Lighting, Inc.
San Francisco .....YUkon 6-2443
Santa Clara .....AXminster 6-6154
Los Angeles .....DUnkirk 7-2307
Sacramento: L. J. Van Nostrand Hickory 6-6234
Fresno: Alan Humphrey .....BAldwin 2-0092
San Diego: E. L. Peterson Co. ...BElmont 3-8373
Portland: Otis A. Taylor .....BUtler 9-8518
Seattle: D. A. Olson Co. .....MElrose 3-4133
Denver: O. E. Fleischer .....MAin 3-3221
Phoenix: Wm. Benndorf Co. ..CRestwood 7-1662
Albuquerque: James Hallek ....DIamond 4-3235
Salt Lake City: Stevens Sales ...INgersol 7-5489

Dossert Mfg. Corp.
San Francisco: Curry Co. .....YUkon 2-0788
Los Angeles: Matzinger-Johnson Co. .....MAdison 4-8001
Oswego, Ore.: Henry G. Lehl. .NEptune 6-4210
Denver: R & M Sales Co. .....SPruce 7-2515
Salt Lake City: T. R. Van Wagoner .....INgersol 6-2461

Duncan Electric Co., Inc.
Covina, Calif: C. C. Blacksmith .....EDgewood 2-2150
Reno: Kitchen Elec. Supply Co. .FAirview 2-4533
Albuquerque: A & A Supply .....ALpine 6-0307
Phoenix: W. H. Eddy Elec. Prod. Inc. .....ALpine 2-6322
Billings: Montana Elec. Supply ...Phone: 2-0528
Denver: Hamilton Associates ....CHerry 4-1505
Shaffer & Nelson, Inc. in following cities:
Seattle .....MUtual 2-0186
Portland .....BElmont 4-7437
Spokane .....FAirfax 7-9528
Salt Lake City .....ELgin 5-8304

du Pont de Nemours & Co., E. I.
Elastomer Chem. Dept.
Los Angeles .....LUdlow 2-6464
San Francisco .....DAvenport 6-7550
Seattle .....MElrose 2-6977
Portland .....CApitol 7-1281
Denver .....AComa 2-2347
Salt Lake City .....EMpire 4-3582

Eagle Electric Mfg. Co., Inc.
San Francisco: Brill Electric Sales .MArket 6-0456
Los Angeles: Robt. B. Focht ...MAdison 6-7736
Portland: M. Levin .....CApitol 2-9591

Edwards Company, Inc.
Los Angeles .....MAdison 8-2286
San Francisco .....UNderhill 1-5800
Denver: H. F. Ream Sales Agency .....CHerry 4-0558
Phoenix: J. A. Ware, Jr. .....ALpine 2-9388
Portland: D. A. King .....CApitol 8-1990
Seattle: F. A. Strohecker .....MAin 3-0357
Spokane: E. Johnston .....MUtual 2-3597

Electric Tube Products
Los Angeles: Weingart & Lustig .ADams 3-4111
Portland. Pacific Electric Sales .BElmont 5-4137

Electrical Fittings Corp.
Covina, Calif. .....EDgewood 9-8832
Bruce Emmett Co. in following cities:
Portland .....BElmont 2-8117
Seattle .....MUtual 2-6737
Spokane .....FAirfax 7-5670
Salt Lake City .....EMerson 3-5746
San Francisco: W. B. Imholt Co. ..YUkon 2-6213
Los Angeles: Payne & Sloan, Inc. .....MAdison 4-7317
Denver: L. S. Reed & Co. .....ALpine 5-1777

Electro Compound Co.
Los Angeles: W. E. Starr Co. .....AN 9-0371
Portland: Oregon Mfg. Agents ...CApitol 6-3971
Strong & Humphrey .....SH 4-1351
San Francisco:
Electrical Sales Co. .....EXbrook 7-2087

Electro-Motive Div.,
General Motors Corp.
San Francisco .....EXbrook 2-3546

Enjay Chemical Co., Div.,
Humble Oil & Refining Co.
San Francisco .....GArfield 1-8979
Los Angeles .....DUnkirk 5-3297

Erico Products, Inc.
Los Angeles .....LUdlow 1-9922
San Francisco: Pacific Utilities Supply .....YUkon 6-1625
Seattle: Cascade Distributors .....MAin 4-5625
Spokane: Cascade Distributors ...HUdson 7-8114
Denver: Landes, Zachary & Peterson .....SHerman 4-1311

Everstick Anchor Co.
Joslyn Pacific Co. in following cities:
Los Angeles .....LUdlow 7-4251
San Francisco .....UNderhill 1-7313
Seattle .....MAine 3-1957
Portland .....CApitol 3-5127

Fanner Mfg. Co.
San Francisco: Sold Through Line Material Industries .....PLaza 5-8600
Los Angeles .....RAymond 3-6251 and OXford 5-2260
Phoenix .....ALpine 4-8471
Denver: Slaybaugh & Thompson ..AComa 2-5826
Portland: A. L. Polich, Inc. ....CApitol 3-6241
Seattle: A. L. Polich, Inc. .....WE 2-9011
Albuquerque: Smith Sales Co. ....AXtel 9-8024

Fargo Mfg. Co., Inc.
Sold thru Line Material Industries:
San Francisco: .....PLaza 5-8600
Los Angeles: .....RAymond 3-6251 and OXford 5-2260
Denver .....FLorida 5-1689
Portland .....CApitol 2-1981
Seattle .....ATwater 3-6368
Spokane .....KEystone 5-2461
Salt Lake City .....ELgin 5-6257
Phoenix: J. E. Redmond Co. ....ALpine 4-8471

Federal Pacific Electric Co.
San Francisco .....ATwater 2-0810
Los Angeles .....CLinton 7-8281
Seattle .....ATwater 3-7801
Oswego, Ore. .....NEptune 6-4573
Salt Lake City: James Stephens Co. ELgin 5-3540
Denver: R. D. Florence Co. .....AComa 2-1573
Hamilton Associates ....CHerry 4-1505
Albuquerque: F. W. Gorman ....CHapel 7-1596
Phoenix: Elec'l. Eng. & Sales Corp. .....ALpine 3-0927

Fisher-Pierce Co., Inc.
San Francisco: Maydwell & Hartzell .....JUniper 2-6749
Los Angeles: Maydwell & Hartzell .....MAdison 8-7245
San Diego: Maydwell & Hartzell JUniper 2-6749
Phoenix: Maydwell & Hartzell ...BRidge 5-7644
Seattle: Oscar Hogenson .....MAin 2-0737
Portland: J. A. Tudor Asso. ....BElmont 2-1188
Denver: Allen I. Williams .....MAine 3-0343

Fullman Mfg. Co.
San Francisco: L. F. Church ...UNderhill 1-2840
Los Angeles:
Payne & Sloan, Inc. .....MAdison 4-7317
Denver: Harvey Olmstead .....TAbor 5-6264
Bellevue, Wn.: R. C. English .....GL 4-0566
Portland: Nelson English .....CApitol 3-9814

Furnas Electric Co.
Los Angeles: Calhoun & Paxon ..CApital 5-2328
Denver: Clyde P. Elliott Co. .....ALpine 5-7989
Salt Lake City: J. Henry Jones Co. ELgin 5-4191
Portland: Donal Co. .....CHerry 6-8131
Seattle: Muth-Richards Co. .....EAst 3-2128
Phoenix: Southwest Sales Co. ..AMherst 5-1847
San Francisco: J. F. Cady .....JUniper 5-4108

G & W Electric Specialty Co.
San Francisco:
C. E. Ingalls & Sons .....GArfield 1-2916
Los Angeles:
R. E. Cunningham & Son ....MAdison 8-1105
Seattle: W. R. Hendrey Co. ....MAdison 3-3968
Salt Lake City:
Riter Engineering Co. .....EMpire 3-7933
Denver: H. C. Guire Co. .....SPruce 7-2864
Albuquerque: Frank W. Gorman .CHapel 7-1596

Geigy Agricultural Chemicals
Div. of Geigy Chemical Corp.
Los Angeles .....ANgelus 3-3855
Portland .....CApitol 7-4167

Gedney Electric Co.
San Francisco: Baxter Co. .....MArket 1-8636
Los Angeles: Rutkin Electric Sales .....MAdison 3-1224
Seattle: Smith & Thomas .....MUtual 2-6934
Portland: Gordon Hooper .....ALpine 2-9743
Salt Lake City: George Darger Co. .....ELgin 5-2873

SALES OFFICES

General Cable Corp.
San Francisco ..... MIssion 8-4140
Los Angeles ..... LUdlow 2-8327
Portland ..... CApitol 7-5556
Seattle ..... PArkway 3-5861
Salt Lake City ..... DAvis 2-5829
Sacramento ..... WAbash 2-5881

General Electric Co.
Schenectady, Apparatus Div.
San Francisco ..... DOuglas 2-3740
Los Angeles ..... MAdison 5-7381
Phoenix ..... ALpine 8-7724
Denver ..... KEystone 4-7171
Boise 4-3021
Salt Lake City ..... EMpire 4-1891
Portland ..... ATwater 8-0281
Seattle ..... MAin 4-8300

General Electric Co.
Cleveland, Lamp. Div.
Oakland ..... LOckhaven 9-3222
Los Angeles ..... DUnkirk 5-1661
Denver ..... AMhurst 6-0285
Seattle ..... MAin 2-8081
Portland ..... CApitol 3-2101

General Electric Supply Co.
San Francisco ..... UN 3-4000
Los Angeles ..... MA 5-7141
Portland ..... CA 7-0651
Seattle ..... LA 5-6515
Denver ..... AM 6-0671
Salt Lake City ..... EM 3-3911
Sales Offices in Tacoma, Spokane, Pasco, Wash.; Medford, Ore.; Oakland, San Jose, Sacramento, Stockton, Fresno, N. Hollywood, Long Beach, San Bernardino, San Diego and El Centro, Calif.; Phoenix and Tucson, Ariz.; Billings, Butte, Great Falls, Mont.; Boise, Idaho Falls, Ida.; Casper, Wyo.; Ogden, Utah; Pueblo, Colo.; Albuquerque, Farmington, N.M.; Anchorage, Alaska

Gibbons Electric Co.
Santa Clara ..... CHerry 3-6698

Graybar Electric Co., Inc.
San Francisco ..... MArket 1-5131
Los Angeles ..... ANgelus 3-7282
Phoenix ..... ALpine 2-2371
Denver ..... TAbor 5-7111
Boise ..... BOise 3-2594
Butte ..... BUtte 3233
Portland ..... ATlantic 8-5661
Seattle ..... MUtual 2-0122
Salt Lake City ..... ELgin 9-8771
Spokane ..... FAirfax 7-6611
Tacoma ..... MArket 7-0164
San Diego ..... BElmont 3-1361
Tucson ..... MAin 2-6439
Sales offices in following cities: Bakersfield, Fresno, Long Beach, San Jose, Oakland, Oceanside, Sacramento, San Bernardino, Santa Ana, Santa Barbara, Van Nuys, Calif.; Colorado Springs, Colo., and Eugene, Ore.

Greenlee Tool Co.
San Francisco: Lippincott Co. Inc. ..... UNderhill 3-8240
Los Angeles: Lippincott Co. Inc. ..... MAdison 8-8186
Seattle ..... MAin 3-3085
Salt Lake City ..... CRestwood 8-8281

Harvey Aluminum Sales, Inc.
Torrance, Calif. ..... SPruce 5-2181
San Diego ..... CYpress 6-6101
Berkeley ..... THornwall 5-3133
Seattle ..... ATwater 3-4990

Hathaway Instrument Div.,
Hamilton Watch Co.
Denver ..... SKyline 6-8301
Los Angeles ..... VE 7-3311
Also ..... EX 8-3079
Albuquerque, N. M.:
A. I. Williams Co. ..... ALpine 5-9632

Holan Corp.
Los Angeles ..... MAdison 4-8555
Phoenix ..... APplegate 8-6256

Holophane Co., Inc.
San Francisco ..... YUkon 2-9655
Bremerton, Wash. ..... TRiangle 6-4069
Montebello, Calif. ..... RAymond 3-5738
Littleton, Colo. ..... PYramid 4-4527

Hotpoint Co., Div. G. E. Co.
San Mateo-San Francisco ..... DIamond 2-5591
Los Angeles ..... MAdison 4-9201
Seattle ..... MAin 3-8340
Portland ..... CApitol 6-3776
Denver ..... KEystone 4-0131

Hope Electrical Products Co.
San Francisco:
Walter E. Wallace ..... EXbrook 2-6621
Los Angeles: Robert M. Schow ..... HUbbard 3-7931
Portland: R. C. English & Assoc. ..... CApitol 7-2671
Bellevue, Wn.: R. C. English & Assoc. ..... GL 4-0566
Denver: L. D. Hood Sales ..... AComa 2-8001

Hubbard and Co.
Emeryville, Calif. ..... OLympic 2-6600
Los Angeles ..... MAdison 4-8631
Oswego, Portland ..... NEptune 6-2390
Salt Lake City ..... INgersoll 7-5749

Hubbell, Inc., Harvey
San Francisco ..... MIssion 7-3240
Los Angeles ..... MAdison 8-7226
Denver: Paul A. Douden ..... KEystone 4-6798
Spokane: Elmer Johnson ..... MAin 2518
Seattle: Frank A. Strohecker ..... MAin 3-0357
Portland: David King ..... CApitol 8-1990

Incandescent Supply Co.
Los Angeles ..... MA 2-1371
Fresno ..... AM 8-6464
Oakland ..... HI 4-4884
Pasadena ..... MU 1-3370
Redding ..... CH 1-2521
Sacramento ..... GL 2-3111
San Francisco ..... SU 1-4600
San Jose ..... CY 7-2200

Indiana Steel & Wire Co., Inc.
(Distributed by Graybar, all branches)
San Francisco ..... MArket 1-5131
Los Angeles ..... ANgelus 3-7282
Portland ..... ATlantic 8-5661
Seattle ..... MUtual 2-0123
Denver ..... TAbor 5-7111
Salt Lake City ..... ELgin 9-8771

International Business Machines
Los Angeles ..... DUnkirk 1-3696
San Francisco ..... YUkon 2-0100
Denver ..... AComa 2-9373
Seattle ..... MUtual 2-4640
Portland ..... CApitol 8-6623
Salt Lake ..... ELgin 9-7721

International Rectifier Co.
El Segundo, Calif. ..... ORegon 8-6281

I-T-E Circuit Breaker Co.
South San Francisco ..... PLaza 6-8660
Los Angeles ..... MAdison 2-7134
Denver ..... AMherst 6-1404
Phoenix ..... CRestwood 9-9666
Seattle: Garland-Affolter Eng. Corp. ..... MUtual 2-4958
Portland: Garland-Affolter Eng. Corp. ..... CApitol 3-7349
Salt Lake City: Riter Eng. Co. ..... INgersol 7-9449
Butte: McDonough, R. E. ..... BUtte 2-5447
El Paso: R. L. Brewer Co. Inc. ..... KEystone 2-7651

BullDog Electric Products Div.
Oakland: Safety Switchboard Co. ..... LOckhaven 9-7001
Los Angeles: BullDog Elec. Products of L. A. ..... OVerbrook 5-8200
Portland: Coast Elec. & Mfg. Co. ..... ATlantic 8-5373
Denver: Young Elec. & Mfg. Co. ..... AComa 2-4841

Kelman Power Circuit Breaker Div.
Los Angeles ..... CApitol 5-1521
San Francisco:
C. E. Ingalls & Sons ..... GArfield 1-2916
Seattle: Eicher & Co. ..... ATwater 4-1811
Salt Lake City: Cline Equip. Co. ..... ELgin 5-3814
Phoenix ..... CRestwood 9-9666
Denver ..... AMherst 6-1404
Butte: R. E. McDonough ..... BUtte 2-5447
El Paso: R. L. Brewer Co. Inc. ..... KEystone 2-7651

ITEECO Div. of Idaho Maryland Industries, Inc.
No. Hollywood ..... TR 7-9821
Denver ..... AM 6-3411

Jet Line Products, Inc.
San Francisco: Lippincott Co. ..... UNderhill 3-8240
Los Angeles: Lippincott Co. ..... MAdison 8-8186
Salt Lake City:
Lippincott Co. ..... CRestwood 8-8281
Denver: Ralph L. Millie ..... FR 7-9591
Seattle: Vernon B. Cobb ..... EAst 4-6178

Johns-Manville Corp.
San Francisco ..... DOuglas 2-4353
Los Angeles ..... LUdlow 7-2141
Seattle ..... MElrose 3-4300
Denver ..... KEystone 4-6378
Salt Lake City ..... EMpire 4-8446
Portland ..... CApitol 3-8260

Joslyn Mfg. and Supply Co.
Los Angeles ..... LUdlow 7-4251
San Francisco ..... UNderhill 1-7313
Seattle ..... MAin 3-1957
Portland ..... CApitol 3-5127
Phoenix ..... ALpine 2-1245
Salt Lake City ..... EM 3-2084

Kaiser Aluminum & Chemical Corp.
Oakland ..... CRestview 1-2211
Los Angeles ..... MAdison 6-4801
Denver ..... ALpine 5-3459
Phoenix ..... ALpine 3-4841
Portland ..... CApitol 6-4351
Seattle ..... MAin 3-7821
Spokane ..... TEmple 8-2704

Kamphausen Co., Dan
Denver ..... CHerry 4-0559

Kearney Corp., James R.
Oakland ..... CRestview 1-2211
Los Angeles ..... MAdison 6-4801
Denver ..... ALpine 5-3459
Phoenix ..... ALpine 3-4841
Portland ..... CApitol 6-4351
Seattle ..... MAin 3-7821
Spokane ..... TEmple 8-2704

Kearney Corp., James R.
Maydwell & Hartzell, Inc., in following cities:
San Francisco ..... ATwater 8-6900
Los Angeles ..... MAdison 8-7245
Seattle ..... MAin 4-2368
Portland ..... CApitol 8-4173
Spokane ..... MAdison 4-3285
Phoenix ..... ALpine 2-5858
San Diego ..... CYpress 6-2245
Salt Lake City: Conely Engineering Co. ..... EMpire 3-5013
Golden, Colo.: Robert C. Smith ..... CRestview 9-5279

Kelman Power Circuit Breaker Div.
(See listing under I-T-E Circuit Breaker Co.)
San Francisco ..... GArfield 1-2916
Glendale, Calif. ..... CHapman 5-3721
Seattle: Fred Carlson ..... ATwater 4-4360

Killark Electric Mfg. Co.
San Francisco: F. M. Nicholas ..... YUkon 2-1964
Los Angeles: Kenneth Anderson Co. ..... ANgelus 8-6771
Seattle: Northwestern Agencies, Inc. ..... MAine 3-8882
Denver: Kenneth B. Schumann Co. ..... AComa 2-8913
Phoenix: Kenneth Anderson Co. ..... AMherst 5-2863

Klein & Sons, Mathias
Glendale, Calif. ..... CItrus 3-3523
Redwood City, Calif. ..... EMerson 9-2274

Knopp, Inc.
Oakland ..... OL 3-1661
Los Angeles: Arthur Booth ..... DU 1-2161
Denver: Hamilton Associates ..... CH 4-2901
Seattle: Wm. Jewell ..... MA 2-7900

Kortick Mfg. Co.
Maydwell & Hartzell Inc. in following cities:
San Francisco ..... ATwater 8-6900
Los Angeles ..... MAdison 8-7245
Seattle ..... MAin 4-2368
Spokane ..... MAdison 4-3285
Portland ..... CApitol 8-4173
Phoenix ..... ALpine 2-5858

KPF Electric Co.
Stockton, Calif. ..... HOward 4-8381

Kraloy Plastic Pipe Co., Inc.
Los Angeles: ..... Angelus 1-4158
San Francisco: The Curry Co. ..... YUkon 2-0788
Seattle: Fred Carlson Co. ..... ATwater 4-4630
Denver: Kenneth B. Schomann Co. ..... FRemont 7-3023
Albuquerque: Ralph B. Black ..... ALpine 5-9625

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ADVERTISERS AND WESTERN

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Kuhlman Electric Co.
Maydwell & Hartzell, Inc., in following cities:
San Francisco ..... ATwater 8-6900
Los Angeles ..... MAdison 8-7245
Seattle ..... MAin 4-2368
Portland ..... CApitol 8-4173
Phoenix ..... ALpine 2-5858
Spokane ..... MAdison 4-3285
San Diego ..... JU 2-6749
Denver: Sales Engineers ..... AComa 2-4893
Salt Lake City: Sales Engineers . HUnter 5-3547

Lapp Insulator Co., Inc.
San Francisco: Donald E. Ingalls ..... JUneau 6-0332
Los Angeles: Earl S. Condon & Co. ..... DUnkirk 1-3951
Seattle: Charles F. James ..... MAdison 3-1531
Salt Lake City: Riter Engineering Co. ..... EMpire 3-7933
Butte: R. E. McDonough Co. 2-5447

Lennox Industries Inc.
Los Angeles ..... RAymond 3-7256
Salt Lake City ..... HUnter 4-7684

Line Material Industries
San Francisco ..... PLaza 5-8600
Los Angeles ..... RAymond 3-6251
Portland ..... CApitol 2-1981
Seattle ..... ATwater 3-6368
Spokane ..... KEystone 5-2461
Salt Lake City ..... ELgin 5-6257
Phoenix: J. E. Redmond Supply .. ALpine 4-8471
Boise ..... Phone: 2-5706
Butte ..... Phone: 8340
Denver ..... FL 5-1689 and 1680
Sacramento, Calif. ..... GI 2-6264
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Luxo Lamp Corporation
San Francisco ..... AT 5-0550

McCabe Powers Body Co.
Berkeley ..... LAndscape 4-4416
Portland ..... BElmont 6-1178
Phoenix ..... BRidge 5-5774
Salt Lake City ..... DAvis 2-5658
Spokane ..... FAirfax 5-2591
Santa Fe Springs (L.A.) ..... OXbo 8-9844

McCormick & Baxter Creosoting Co.
San Francisco ..... YUkon 2-4033
Los Angeles ..... CHapman 5-4667
Portland ..... AVenue 6-3654

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San Francisco: E. B. Cook Co. . UNderhill 1-2621
Los Angeles: Pacific Industries .. WEbster 3-0335
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Denver: R & M Sales Co. ..... SPruce 7-2515
Albuquerque: McGillan Sales Co. ..... ALbuquerque 5-5239

Markel Electric Products, Inc.
San Mateo, Calif. ..... FIreside 5-1496
Los Angeles: O. W. Coombs .. RIchmond 7-0603
Portland: Pacific Elec. Sales .... BElmont 5-4137
Phoenix: Wm. Benndorf ..... CR 7-1662

Mason Co., L. E. ..... 3rd Cover
San Francisco: G. M. Howard & Assoc. ..... MArket 1-6759
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John M. Fincke Co. ..... CApitol 5-4226
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Pacific Electric Sales Co. .... BElmont 5-4137
Denver:
Harry F. Ream Sales Agency .. CHerry 4-0558

Maydwell & Hartzell, Inc.
San Francisco ..... ATwater 8-6900
Los Angeles ..... MAdison 8-7245
Phoenix ..... BRidge 5-7644
Portland ..... CApitol 8-4173
Seattle ..... MAin 4-2368
Spokane ..... MAdison 4-3285
San Diego ..... JUniper 2-6749
Medford ..... SPring 2-9195
Tucson ..... MAin 2,3331

Micro Balancing, Inc.
Joslyn Pacific in following cities:
Los Angeles ..... LUdlow 7-4251
San Francisco ..... UNderhill 1-7313
Seattle ..... MAin 3-1957
Portland ..... CApitol 3-5127
Phoenix ..... ALpine 2-1245
Salt Lake City ..... EMpire 3-2084
Denver: Hamilton Assoc. ..... CHerry 4-1505

Moloney Electric Co.
Garland Affolter in following cities:
San Francisco ..... EXbrook 7-1800
Los Angeles ..... MAdison 4-1864
Portland ..... CApitol 3-7349
Seattle ..... MUtual 2-4950
Denver: Hamilton Associates ... CHerry 4-1505
Salt Lake: Riter Engineering ... EMpire 3-7933

Morrison-Pelsue
Sold by Graybar Co.—All offices.
Denver ..... RAce 2-2834
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Spokane: Tinling & Powell ..... TEmple 8-8276
Denver: Hamilton Associates .... CHerry 4-1505

Murray Mfg. Corp.
Los Angeles ..... HOllywood 9-9381
San Francisco:
Ernest F. Hauch Co. ..... HEmlock 1-1828
Portland: Northwest Sales Co. .. CApitol 3-5959
Denver: Geer Sales Co. ..... Alpine 5-7310
Phoenix: Ralph Mooney ..... AMherst 6-2885

Myers Electric Products, Inc.
Los Angeles ..... RA 3-0031
San Francisco: Howard & Goepp Co. MA 1-6759
Denver: A. J. Nelson ..... PE 3-5528
Seattle: Muth-Richards ..... EA 3-2128

National Supply Co., Tubular Products Div.
San Francisco: Egbert & Assoc. DOuglas 2-2975
San Francisco: Arthur & Allen ... YUkon 2-3483
Los Angeles: Murphy-Hain .... ANgelus 8-3521
Denver: Fred E. Staible & Sons ... TAbor 5-3991
Salt Lake City:
Fred E. Staible & Sons ..... INgersol 6-2461
Seattle: Northwestern Agency Inc. MAin 3-8882

Newport News Shipbuilding & Dry Dock Co.

Nu-Art Lighting & Mfg. Co.
Los Angeles: Joseph E. Shull & Sons AM 1-1101
San Francisco: Stanley Sales Corp. .. UN 3-8900
Albuquerque: Gerald Joseph ..... AL 5-7936
Denver: Ralph Meislahn ..... AC 2-1795
Bruce-Emmett Co. in following cities:
Portland ..... BE 2-8117
Seattle ..... MU 2-6737
Spokane ..... FA 7-5670

Ohio Brass Co.
San Francisco ..... SUtter 1-5060
Los Angeles ..... MAdison 4-8555
Seattle ..... MAin 2-3842
Denver ..... SKyline 6-7722

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Santa Ana ..... LIncoln 4-1195
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Newark, Calif. ..... SYcamore 3-2200

OZ Electrical Mfg. Co.
San Francisco ..... GArfield 1-7846
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Wm. A. Proby Associates ..... CApitol 8-7261
Seattle: Wm. A. Proby Associates MAin 3-3483
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Salt Lake City: K. Lagerstrom ..... ELgin 9-2701

Pacific Coast Elec'l Association
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Pacific Gas and Electric Co.
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Los Angeles ..... AN 8-3895
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Denver: Roy J. O'Donnell Co. KE 4-0179
Seattle: John B. Merifield Co., Inc. MA 3-7850

Paranite Wire & Cable Div.,
Essex Wire Corp. 106, 107
Los Angeles ..... RAymond 3-4794
South San Francisco ..... PLaza 6-3030
Portland ..... CApitol 3-6124
Seattle ..... MAin 3-5641

Pass & Seymour, Inc.
Arcadia, Calif. ..... ELgin 5-6513
San Francisco ..... DO 2-1313
Los Angeles: J. G. Pomeroy .... MAdison 5-1105
Portland: Shaffer & Nelson .... BElmont 4-7437
Seattle: Shaffer & Nelson ..... MUtual 2-0186
Lakewood, Colo.: R. T. Lewis & Co.
Salt Lake City: Shaffer & Nelson .. ELgin 5-8304
Albuquerque: Ralph Black ..... AL 5-9625

Pennsylvania Transformer Div.
San Francisco: George E. Honn Co. SUtter 1-7352
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Phoenix: Roy E. Coulson ..... WIndsor 3-8935
Denver: Peterson Co. ..... DExter 3-5434
Salt Lake City: Clarence W. Silver .. ELgin 5-5378
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Fred W. Carlson & Associates .. CApitol 8-3798
Boise, Ida.: Clarence W. Silver Co. 2-6947
Albuquerque:
Williamson Sales Co. ..... ALpine 6-6617

Penn-Union Electric Corp.
San Francisco: F. M. Nicholas Co. YUkon 2-1964
Los Angeles: Kenneth Anderson Co. ..... ANgeles 8-6771
Seattle: Northwestern Agencies .. MAin 3-8882
Portland: Northwestern Agencies . CApitol 7-5004
Salt Lake City: John Elggren Co. . EMpire 3-3945
Denver: Jim Dawson Co. ..... ALpine 5-7194

Petersen Engineering Co.
(Contact factory for nearest dealer)
Santa Clara, Calif. ..... AX 6-7712

Pfaff & Kendall
San Jose: Forrest E. Pope ..... ALpine 2-7186

Phelps-Dodge Copper Products Corp.
San Francisco ..... OXford 7-7333
Los Angeles ..... RAymond 3-1311
and PArkview 1-1191
Seattle ..... GLencourt 4-5026
Denver ..... CHerry 4-9291
and CHerry 4-9292
Portland ..... CApitol 6-6117

Phillips & Edwards Electric Corp.
Oakland ..... LO 9-7746
Redwood City ..... EM 9-3716
San Francisco ..... UN 3-7400
Santa Rosa ..... LI 6-5995
Stockton ..... HO 4-9888

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Santa Ana: Blystone Equip. Co. . KImberly 2-3918

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H. K. Porter Co., Inc., Delta Star Elec. Div.
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Albuquerque: Ralph B. Black ... ALpine 5-9625
Los Angeles ... MAdison 6-5651
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Daley Elec. Sales Co. Inc. ... ALpine 4-4176
Salt Lake City:
Stevens Sales Co. ... INgersol 7-5489
San Francisco ... EXbrook 2-2588
Seattle ... MAin 4-7066
Tucson:
Daley Elec. Sales Co. Inc. ... MAin 4-6943

Porter Co., Inc., H. K., National Electric Div.
San Francisco ... UNderhill 1-1145
Los Angeles ... RAymond 3-4654
Seattle ... MAin 3-3775
Salt Lake City ... DAvis 2-2701
Denver ... PEarl 3-3741

Precision Multiple Controls
San Francisco:
Wrathall & Krusi ... EXbrook 7-3593
Los Angeles: Industrial Engineering & Equip. Corp. ... DUnkirk 1-1281
Denver: Jim Dawson Co. ... ALpine 5-7194
Salt Lake City:
Leonard M. Slusser ... ELgin 5-2322
Vancouver, Wn.:
Bill Horning Sales ... OXford 4-4475

Preformed Line Products Co.
Palo Alto: 600 Hansen Way ... DAvenport 4-2561
San Francisco: K. M. Ryals Co. ... YUkon 2-5510
Los Angeles: Earl S. Condon Co. ... DUnkirk 1-3951
Seattle: Shaffer & Nelson Inc. ... MUtual 2-0186
Portland: Shaffer & Nelson Inc. ... BElmont 4-7437
Salt Lake City: Shaffer & Nelson Inc. ... Hunter 4-3382
Spokane: Shaffer & Nelson Inc. ... FAirfax 7-9528
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R T & E Corp.
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Salt Lake City: T. R. Van Wagoner Co. ... INgersol 6-2461
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Los Angeles: H. C. Mitchell, Jr. ... GRanite 8-3418
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Republic Steel Corp.
San Francisco ... GArfield 1-0977
Los Angeles ... MAdison 4-5144
Portland: Shaffer & Nelson Inc. ... BElmont 4-7437
Seattle: Shaffer & Nelson Inc. ... MUtual 2-0186
Spokane: Shaffer & Nelson Inc. ... FAirfax 7-9528
Denver: C. D. Belt Co. ... SKyline 6-9421

Ripley Co.
Portland: Wm. J. Cottrell ... CApitol 7-6191
Phoenix: W. H. Eddy ... ALpine 2-6322
Oakland: J. H. Ormond Co. ... TWinoaks 3-3235
Los Angeles: A. W. Nash Co. ... ANgelus 9-7304

Rome Cable Div. of Alcoa
Los Angeles ... RAymond 3-3631
San Francisco ... VAlencia 6-3580
Seattle ... MAdison 4-3017
Salt Lake City ... ELgin 9-8811
Denver ... KEystone 4-0533

Royal Electric Corp.
Los Angeles: Eckert-Lloyd Co. ... RIchmond 7-9655
San Francisco: Eckert-Lloyd Co. ... HEmlock 1-5792
Seattle: Northwestern Agencies ... MAin 3-8882
Portland: Northwestern Agencies ... CApitol 7-0434
Phoenix: Wm. Benndorf ... CRestwood 7-1662

Royal Electric Mfg. Co. Inc.
Albuquerque: A & A Supply ... ALpine 6-0307
Phoenix: Roy E. Coulson ... WI 3-8935
Denver: H. C. Guire Co. ... SP 7-2864
Vancouver, Wn.: Bill Horning Sales ... OX 4-4475
Salt Lake City: L. M. Slusser ... EL 5-2322
Long Beach Krause Eng. Co.
San Francisco: C. E. Ingalls & Sons ... GA 1-2916

S & C Electric Co.
Burlingame, Calif. ... OXford 7-1130
El monte, Calif.: Randolph Eng. Corp. ... CUmberland 3-4183 and 3-7901
GIlbert 3-1701
Phoenix: Randolph Eng. Corp. ... ALpine 8-5281
Salt Lake City:
Riter Engineering ... INgersoll 7-9449
Portland: S&C Elec. Co. ... BElmont 4-5388

Safety Electric Equipment Co.
San Francisco

San Diego Gas and Elec. Co.
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San Francisco: L. A. Nott ... HEmlock 1-4738
Los Angeles: (Factory Sales) ... DUnkirk 7-2336
(Time Switches) ... ANgelus 8-6771
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Denver: Mt. States Machinery ... CHerry 4-7421
Phoenix: J. E. Redmond Co. ... ALpine 4-8471
Portland: R. L. Schoenberger ... CApitol 3-8742
Butte: R. E. McDonough ... Butte 2-5447
Tucson ... AXtel 8-4801
Albuquerque:
Gorman Engineering ... CHapel 7-1596
El Paso: Gorman Engineering ... KEystone 2-3449

Shell Oil Co.
San Francisco ... EXbrook 2-5400
Los Angeles ... MAdison 5-7341

Sherman & Reilly, Inc.

Sierra Electric Corp.
San Francisco: Stanley Sales ... Underhill 3-8900
Seattle: Sanderlin Co. ... ATwater 4-7777
Portland: Sanderlin Co. ... BElmont 5-0121
Salt Lake City:
J. W. Reynolds Co. ... HUnter 4-1133
Denver: George E. Metcalf Co. ... FRemont 7-6459
Albuquerque:
Gordon W Laursen & Son ... ALpine 6-7322
San Diego: Jack Murphy ... BElmont 3-7078
Los Angeles ... FAculty 1-1000

Simplex Wire & Cable Co.
Garnett Young & Co. in following cities:
San Francisco ... DOuglas 2-4220
Los Angeles ... ADams 1-4337
Seattle ... MAin 3-0123
Phoenix ... CRestwood 4-5483
Portland ... CApitol 8-8478
Denver: Krippner & Polley ... ALpine 5-1059
Salt Lake City: Conely Eng. Co. ... HUnter 4-5208

Slater Mfg. Co.
San Francisco: Baxter Co. ... MArket 1-8636
Los Angeles: Payne & Sloane, Inc. ... MAdison 4-7317
Denver: Don Steinkamp ... EAst 2-7961
Bruce Emmett in following cities:
Portland ... BElmont 2-8117
Seattle ... MUtual 2-6737
Spokane ... FAirfax 7-5670
Salt Lake City ... DAvis 2-3828

Smoot-Holman Co.
San Francisco ... MArket 1-8474
Los Angeles ... ORegon 8-8981
Salt Lake City: J. R. Christensen ... EMpire 3-4419
Seattle: F. C. Scharr ... ATwater 2-9230
Portland: Clay Barton ... CApitol 8-3520

Sorgel Electric Co.
San Francisco: Artwel Elec. Inc. ... JU 6-4184
Los Angeles: W. E. Starr ... ANgelus 1-9204
Phoenix: W. C. Osborn ... WI 3-1815
Denver: Boyer & Seeley, Inc. ... ALpine 5-6770
Oswego, Ore.: H. G. Lehl ... NEptune 6-4210

Southern California Edison Co.
Los Angeles ... MAdison 4-7111

Southern Electrical Co.
Garland-Affolter Eng. Co. in following cities:
San Francisco ... EXbrook 7-1800
Los Angeles ... MAdison 4-1864
Portland ... CApitol 3-7349
Seattle ... MUtual 2-4950
Denver: Hamilton Associates ... CHerry 4-1505
Phoenix: R. E. Coulson Co. ... WIndsor 3-8935

Southern States Equipment Corp.
Seattle: Jos. C. Platt ... MAin 3-6141
Salt Lake City:
T. R. Van Wagoner Co. ... HUnter 6-7251
Denver: R. T. Lewis Co. ... EAst 2-1082
Los Angeles: W. E. Kirk Co. ... MAdison 4-3651
Lake Grove, Ore.: C. F. Selby ... NEptune 6-1486
Oakland: John H. Ormond ... TWinoaks 3-3235

Square D Co.
Los Angeles ... CApitol 1-1171
San Francisco ... JUniper 7-4590
Seattle ... EAst 3-1474
Portland ... BElmont 4-8488
Denver ... KEystone 4-6234
Salt Lake City ... DAvis 2-5859
Phoenix ... ALpine 8-6448
El Paso ... KEystone 3-0544
Spokane ... FAirfax 8-3690
San Diego ... BElmont 3-7621
Fresno ... AMherst 8-6268

Standard Oil Co. of Calif.
San Francisco ... SUtter 1-7700
Los Angeles ... MAdison 4-2711
Portland ... CApitol 3-4161
Seattle ... MAin 3-6310
Salt Lake City ... DAvis 2-5831

Subox, Inc.
San Francisco: Wrathall & Krusi ... EXbrook 7-3593
Los Angeles: R. E. Cunningham & Son ... MAdison 8-1105
Portland: Wm. J. Cottrell & Assoc. ... CApitol 7-6191
Seattle: Fred H. Carlson Co. ... ATwater 4-4630
Denver: Ambler Co. ... TAbor 5-8885

Superior Cable Corp.
Maydwell & Hartzell, Inc., in following cities:
San Francisco ... ATwater 8-6900
Los Angeles ... MAdison 8-7245
Phoenix ... ALpine 2-5858
Portland ... CApitol 8-4173
Seattle ... MAin 4-2368
Spokane ... MAdison 4-3285

Texoma Enterprises, Inc.
Los Angeles:
Industrial Eng. & Equip. Corp. ... DUnkirk 1-1281
Albuquerque, N. M.: Smith Sales Co. ... AXtel 9-8024
Portland:
Western Power Products, Inc. ... CApitol 7-1384
Seattle: Western Power Products, Inc. ... LA 2-2009

Tri-State Supply Corp.
Los Angeles ... MAdison 8-2354
San Francisco ... EXbrook 2-8890
Seattle ... MAin 2-4161

Turner Electric Corp.
Fred W. Carlson in following cities
Seattle ... ATwater 4-4630
Portland ... CApitol 8-3798
Butte ... Phone 8914
Los Angeles:
Industrial Eng. & Equip. Corp. ... DUnkirk 1-1281
Denver: Hamilton Associates ... CHerry 4-1505

Victor Specialties, Inc.
San Francisco:
Stanley Sales Corp. ... UNderhill 3-8900
Los Angeles: Hayjax Co. ... MAdison 8-5256
Phoenix: George W. Hill ... WH 6-1657
Salt Lake City: John E. Eiggren ... AXtel 5-0472
Denver: Bacon's Elec'l Equip. ... CH 4-6563

Virden Lighting, Division of John C. Virden Co.
San Francisco: David Parker ... JUniper 6-5266
Atherton, Calif.: W. G. Sawyer ... DAvenport 5-4931
Fullerton: Wm. K. Newell ... TRojan 1-1845
Phoenix: Ray E. Wendling ... ALpine 2-2541
Seattle: Donald S. Gleason ... LAkeview 5-5151
Portland: Clyde E. Dodd ... BUtler 5-3271

Wagner Electric Corp.
South San Francisco ... PLaza 6-0520
El Segundo, Calif. ... ORegon 8-7671
Portland ... CApitol 7-3654
Salt Lake City ... EMpire 3-5013
Denver ... CHerry 4-7421
Seattle ... MAin 2-2342

Weld Rite Co.
Oakland ... ANdover 1-3341
Los Angeles ... MAdison 4-9338

Western Insulated Wire Co.
Los Angeles ... LUdlow 7-7103
San Francisco: Electrorep, Inc. ... MArket 6-0225
Seattle: J. H. Stumph Co. ... MUtual 2-5232
Albuquerque: John Carder ... CHapel 2-3581
Salt Lake City:
T. R. Van Wagoner ... HUnter 6-7251
Portland: George M. Roth ... CApitol 7-5654

Westinghouse Electric Corp.
San Francisco ... EXbrook 2-5353
Los Angeles ... MAdison 6-3881
Denver ... KEystone 4-8121
Phoenix ... ALpine 8-8621
Salt Lake City ... ELgin 5-3413
Seattle ... MAin 2-0808
Portland ... ATlantic 8-6311
Spokane ... FAirfax 8-3371

White-Rodgers Co.
Los Angeles ... MAdison 8-1211
Portland ... BElmont 4-7523
San Francisco: Kenneth Hill ... WEst 1-2612
Mountlake Terrace, Wash.: L. Wren ... PRospect 6-5931
Denver ... BElmont 7-0709

Wrathall & Krusi, Inc.
San Francisco ... EXbrook 7-3593

DIRECTORY of REPRESENTATIVES

A listing of states and cities of manufacturers' Western representatives handling electrical lines.

CALIFORNIA

Berkeley

LaMOREE, C. D., 2221 Fourth St. (See Adv. page 94)

NOURSE EQUIPMENT CO., 2300 4th St. (See Adv. page 41)

Covina

BLECKSMITH, C. C., P. O. Box 54.

Los Angeles Area

AGENCIES COMPANY, 836 Traction Ave.

AIREY CO., INC., F. J., 2324 E. Hunter

ALLIED INDUSTRIES, 412 Seaton St.

ANDERSON COMPANY, KENNETH, 123 S. Myers St.

ANGUS-CAMPBELL, INC., 4417 S. Soto Street.

ARTER COMPANY, LEE, 5221 El Mirador Dr.

ASSOCIATED CARBON PRODUCTS, INC., 207 West Pico Blvd.

AUTHORIZED SUPPLY CORP., 1437 So. Los Angeles St.

BARBERA & CO., A. A., 311 N. Martel Ave.

BOOTH COMPANY, ARTHUR E., 265 S. Alexandria Ave.

BRAN CO., FRANK H., 607 E. 6th St.

BRENNER-FIEDLER & ASSOCIATES, 7563 Melrose Ave.

BULLDOG ELECTRIC PROD. OF L.A., 3020 Supply Ave.

CALIFORNIA WHOLESALE ELEC. CO., 2548 Yates Ave.

CALREPCO, 1417 Georgia St. (See Adv. page 90)

CLAPP COMPANY, R. B., 5404 Alhambra Ave.

CLARK RIMPAU SALES CO., 923 E. Third St.

COHN & SHANE, 1323 Venice Blvd.

CONDON, EARL S., 3450 Wilshire Blvd. (See Adv. page 4)

CONTROL SWITCHES, INC., 6241 W. 89th St.

COOMBS SALES COMPANY, O. W., 1026 So. Olive.

CORMAN, WALTER W., 7432 W. 80th St.

CORRIN, JOHN G., 510 W. 6th.

CUNNINGHAM & SON, R. E., 530 W. 6th St.

DAVIDSON & ASSOCIATES, JOE, 2803 Los Flores Blvd., Lynwood

EASTERBROOK, H. D., 1264 Boyle Ave.

EASTMAN PACIFIC CO., 5240 Alhambra Ave.

ECKERT-LLOYD CORP., 1950 Naomi Ave.

ELECTRIC CORP., THE, 200 S. Mission

ELECTRIC MACHINERY MFG. CO., 2200 E. 27th

ELECTRICAL MFGR.'S REP., INC., 151 N. Vermont Ave.

ELEC'L SPECIALTY CO., 2820 E. 12th St.

EMMET CO., FRANK A., 2937 West Pico Blvd.

ENGINEERING SALES CO., 406 S. Main St.

ENGINEERED PROCESS EQUIP. CO., 744 E. Green St., Pasadena

FELDMAN CO., HENRY, P. O. Box 66367

FIBRE-METAL PACIFIC, INC., 7332 S. Garfield Ave., Bell Gardens

FINCKE CO., JOHN M., 1848 N. Main St.

FORD CO., INC., T. A., 402 Agostino Road, San Gabriel

FRIEDLAND, HARRY, 200 San Miguel, Pasadena

FULLER CO., WM. H., 1038 N. Palm Ave. Whittier

GARLAND-AFFOLTER ENG. CORP., 417 So. Hill.

GARNETT YOUNG & CO., 3775 Broadway So.

GENERAL ELECTRIC SUPPLY CO., 700 Turner St. (See Adv. page 91)

GLENMART CO., INC., 2850 Tanager Ave.

GOEBEL, W. J., 225 West 23rd

GOLSAN, JR., PAGE E., 1421 So. Flower

GOUGH INDUSTRIES, INC., 827 East First (See Adv. page 78)

GRAYBAR ELEC. CO., INC., 210 Anderson (See Adv. pages 28, 29)

HALDEMAN, INC., HARRY F., 2401 So. Hill St.

HAYJAX CO., 436 Colyton St.

HENGER-SELTZER CO., 120 So. Hewitt.

HECKENDORN, PHILIP H., 803 Houseman St.

HEIM & SCHEER, 11168 Santa Monica Blvd.

HERMAN-ASHBY CO., 1799 Alta Crest Dr.

HILL CO., J. T., 420 S. Pine St., San Gabriel

HOCKENSMITH, F. L., 412 Seaton St.

HOLMES, CARL E., 107 No. Ave. 64

HOWZE & COMPANY, 5603 N. Figueroa

HUGHES CO., INC., R. S., 4514 Alger St.

HUNDLEY CO., 3282 Fletcher Dr.

HYATT CO., JOHN, 6059½ E. Olympic Blvd.

IMHOF, E. J., 711 S. Vermont Ave.

INDUSTRIAL ENGINEERING & EQUIP., 2975 Wilshire Blvd.

JENSON INSTR. CO., 1919 Beverly Blvd.

JEWETT CO., S. O., 13111 Ventura Blvd., North Hollywood

JACKSON EDWARDS CO., 4101 Lankershim, North Hollywood

JOHNSON CO., A. F., 104308 Burbank, North Hollywood

JOSLYN PACIFIC COMPANY, 5100 District Blvd.

KAY AGENCY, J. H., 713 E. Third St.

KEELER, WHITE CO., 436 Colyton St.

KING, W. C., 2200 East 27th St.

KIRK CO., W. E., 415 Wall St. (See Adv. page 42)

KLINGER CO., M. H., 9409 W. Pico

KNIGHT COMPANY, W. BERT, 10377 West Pico Blvd.

KOBERT-PHILLIPS CO., 331 Winston St.

KRAUSE ENGINEERING, 741 E. Artesia St., Long Beach

LaMOREE, C. D., 2433 Birkdale (See Adv. page 94)

LEDBETTER CO., GEORGE W., 16618 Ventura Blvd., Encino

LEICH SALES CORP., 11401 W. Pico Blvd.

LINDSEY, HARRY N., 1516 W. 81st St.

LINEMEN'S SUPPLY CO. OF CALIF., 2704 S. Hill St. (See Adv. page 84)

LIPPINCOTT CO., 1052 West Sixth St.

LITTRELL HARDWARE LINES, INC., 3121 East 12th St.

LYNN & BROOKS, 3055 Wilshire Blvd.

MADDOX SALES CO., 914 E. 3rd St. (See Adv. page 37)

MARKMAN CO., R. MARK, 4260 Lankershim, North Hollywood

MARSH COMPANY, J. W., 4216 W. Jefferson.

MARSHALL CO., G. S., 2065 Huntington Dr., San Marino

MATZINGER-JOHNSON CO., 1329 Willow St. (See Adv. page 41)

MAYDWELL & HARTZELL, INC., 427 W. 5th St. (See Adv. page 10)

McGUIRE, WILLIAM A., 164 S. Central Ave. (See Adv. page 96)

McLOUGHLIN CO., 811 E. 14th Pl.

MELLO, C. E., 406 So. Main

METCALF & CO., INC., JAMES I., 530 W. 6th St.

MEUSDORFFER, REYNOLDS & ASSOC., 3487 Cahuenga Blvd. No. 1.

MICHELL BROS., 1413 E. 20th St.

MONTGOMERY BROTHERS, INC., 4800 District Blvd. (See Adv. page 17)

MURPHY-HAIN CO., 333 South Mission Rd.

NASH, A. W., 2112 So. Atlantic Blvd.

NIEMANN, D., 432 Colyton St.

NOEL & ASSOCIATES, RAY J., 4315 S. Western Ave.

PACIFIC INDUSTRIES, 8255 Beverly Blvd.

PARRISH & JUSTICE CO., 2720 So. San Pedro

PAULES, E. G., 1762 W. Vernon Ave.

PAYNE & SLOAN, INC., 1101 East 5th St. (See Adv. page 85)

PETERSON CO., C. A., 784 E. 14th Place.

PETERSON, R. W., 103 N. Santa Anita, Arcadia

POMEROY COMPANY, J. G., 1004 E. Fourth St. (See Adv. page 101)

POPE CO., JAMES C., 2720 S. San Pedro

PORTER COMPANY, DON, 1117 So. Robertson.

POSSNER CO., 1223 Venice Blvd.

PREFERRED EQUIPMENT, INC., 4232 E. Whiteside

PRESTON MACHINERY CO., 6703 Santa Fe, Huntington Park

PUELICHER, RICHARD T., 3151 E. Colorado, Pasadena 8

RANDOLPH ENGINEERING CORP., 12202 E. Garvey Ave., El Monte (See Adv. page 9)

RISING, INC., H. G., 151 N. Vermont

ROBERTS & ASSOCIATES, E. V., 5068 W. Washington Blvd.

ROZEMA, FRANK, 412 Seaton St.

RUBIN, WALTER, 6452 Penfield Ave., Woodland Hills

RUSH ASSOCIATES, C. B., 3757 Wilshire Blvd.

RUTKIN SALES, 744 Kohler St.

SANSON CO., EUGENE T., 4050 E. Olympic Blvd.

SAUL & ASSOC., HOWARD M., 5015 San Vicente Blvd.

SCHALLER CO., J. J., 845 Traction Ave.

SCHOW, ROBT. M., 926 S. Atlantic Blvd.

SHEETER & CO., 2508 W. Sixth St.

SHERMAN-MITCHELL & CO., P. O. Box 49797.

SHIRREFFS CO., JIM, 3601 So. Broadway Place (See Adv. page 74)

SHOEMAKER, H. M., 1576 Gower St., Hollywood 28

SHULL & SON, J. E., 3350 Wilshire Blvd.

SILVERMAN, ROY, 1316 N. Laurel Ave.

SMALLCOMB ELECTRIC CO., 1120 S. Main St.

SMEDLEY & ASSOCIATES, A. B., 848 Marcheta St., Altadena (See Adv. page 92)

SMITH, LOMBARD, CO., 714 W. Olympic Blvd.

SOUTHWESTERN AGENCIES, 923 E. Third St.

STEVENS CO., INC., THOMAS L., 15222 Grevillea Ave.

STOLAROFF, M. A., 4622 W. Slauson Ave.

STRASSNER CO., CONRAD R., 1557 N. Western Ave.

SUCHMAN ASSOCIATES, 837 E. Fourth Pl.

TAUFENBACH CO., LES, 4860 Valley Blvd.

TIVY CO., GEORGE S., 2230 W. 11th St.

TRENBETH, W. J., 1609 Penman Ave., Venice

TRI-STATE SUPPLY CORP., 544 S. San Pedro (See Adv. page 25)

TUBERGEN, JOHN B., 2234 W. 11th St.

WALL & ASSOC., RALPH, 705 Ben Alder, Whittier

WALLACE & WALLACE, 1206 Maple Ave.

WARBURG CO., INC., ED., 1207 E. 8th St.

WEIGHTMAN & ASSOCIATES, 4029 Burbank Blvd., Burbank

WEINGART & LUSTIG, 1567 East 25th St.

WESTERN ELECTROMOTIVE, INC., 5544 W. Pico Blvd.

WESTERN ELECTRONIC ENTERPRISES, 3348 W. Compton Blvd., Gardena

WESTINGHOUSE ELEC. SUPPLY CO., 905 E. 2nd St.

WESTRON SALES & ENG., 7407 Melrose Ave.

WILCOX, GEORGE P., 4802 Loma Vista

WOOLSEY, C. L., 1320 Opechee Way, Glendale

WOOD CO., ASH M., Box 1158, Arcadia

YOUNG & CO., ROBERT A., 3901 San Fernando Road, Glendale (See Adv. page 86)

Oakland

CALIFORNIA ELEC. COMPANY, 3015 Adeline.

CERESKE, WILLIAM S., 1401 Middle Harbor Road (See Adv. pages 86, 88, 108)

CHEMNITZ CO., ERIC F., 1096 Yerba Buena Ave., Emeryville

CROCKER, P. R., 2171 Hillview Dr., Walnut Creek

DENHAM SALES SVC., 293 27th St.

GRAYBAR ELECTRIC CO., INC., 1911 Union St. (See Adv. pages 28, 29)

HAMM, EVERETT, 17 Normandy Lane, Orinda

HILL & DEITRICK, 417 E. 10th St.

JOHNSON ENGINEERING CO., 534 20th St.

LAGERSTROM CO., R. E., 2739 Tenth Ave.

MABI CO., P. O Box 835.

McCORMICK, TROY J., 707 Rodney Dr., San Leandro

ORMOND CO., JOHN H., 600 16th St.

PAULES, P. E., 3871 Piedmont Ave.

SAFETY SWITCHBOARD CO., 910 89th Ave. (See Adv. page 102)

SILVA, L. M., 3124 E. 14th St.

WESTERN ELECTRO-MECHANICAL, 300 Broadway

Sacramento

GRAYBAR ELEC. CO., 1900 14th St. (See Adv. pages 28, 29)

MONTGOMERY BROS., INC., 1331 T St. (See Adv. page 17)

PERDUE, A. L., 4305 Ravenwood Ave.

San Diego

GRAYBAR ELEC CO., 720 State St. (See Adv. pages 28, 29)

MURPHY, JACK, 1670 Fourth Ave.

MAYDWELL & HARTZELL, INC., 5823 Henley Dr. (See Adv. page 10)

PETERSON CO., EDWARD L., 709 Bank of America Bldg.

SETCHELL, JAMES A., 301 W. G St.

WARE & ASSOCIATES, JOHN ALLEN, 301 West G St.

San Leandro

BURRILL CO., P. J., 2131 Washington

HYDE, PARK B., 581 E. 14th St.

McCORMICK, TROY J., 707 Rodney Dr.

San Francisco & Peninsula

AIRSUPPLY CO., Towne & Country Village, Palo Alto

AMBROSINI, ARNOLD T., 420 Market St.

ANGUS-CAMPBELL, INC., 760 Tennessee St.

ARTER CO., LEE, 21 Fairview Pl., Millbrae

ARTHUR & ALLEN, 420 Market St. (See Adv. page 87)

ARTWEL ELECTRIC, INC., 1485 Bayshore Blvd. (See Adv. page 83)

ASHTON, WM., 50 Hawthorne St.

AULT ASSOCIATES, 120 Santa Margarita, Menlo Park

BABCOCK, STEPHEN, 3573 Pierce St.

BAUM, R. E., 681 Market St.

BAXTER COMPANY, 101 Kansas St. (See Adv. page 8)

BELCHAMBER & FRENCH, 1485 Bayshore Blvd.

BELILOVE CO., 420 Market St.

BENZ CO., FRED D., 520 4th St. (See Adv. page 77)

BERGER, FRED W., JR., 57 Post St.

BERGMAN-MARSHALL CO., INC., 1370 Van Dyke St. (See Adv. page 97)

BERMAN CO., E. L., P. O. Box 834, Belmont

BLAKELY, CHAS. A., 754 Natoma St.

BOSWELL, C. W., 1139 Mission

BRAINARD, WM., 715 Hamilton, Palo Alto

BRENTON EQUIPMENT CO., 374 Brannan St.

BRILL ELEC. SALES, 123 Kansas St. (See Adv. page 80)

BROOKS EQUIPMENT CO., 636 Potrero St.

BRYAN & HERBERT CO., 1355 Market St.

CADY, J. F., 1485 Bayshore Blvd.

CAHN CO., BERNARD L., 420 Market St.

CALIFORNIA INSTRUMENT CO., 351 10th St.

CALIFORNIA ULTRAVIOLET CO., 420 Market St. (See Adv. page 84)

CAMPBELL-GEORGE CO., 1601 Cortland.

CERRUTI & ASSOCIATES, 116 Cypress St., Redwood City

CHURCH CO., L. F., 750 Natoma St.

COHN & SHANE, INC., 685 Folsom St.

COOK COMPANY, E. B., 1063 Howard St. (See Adv. page 94)

CURRY CO., 190 Lombard St. (See Adv. page 108)

DALTON ASSOCIATES, C. R., 1037 Laurel St., San Carlos

DE LEUZE COMPANY, GUY, 1923 Bryant St. (See Adv. page 80)

DUGGAN CO., EDWARD, 3025 24th Ave.

ECKERT-LLOYD CORP., 1225 6th.

EGBERT & ASSOCIATES, 506 Russ Bldg.

EICHORN & MELCHOIR, INC., 932 Terminal Way, San Carlos

ELECTRICAL SALES CO., 2445 Clement St.

ELECTRICAL SPECIALTY CO., 158-168 11th St.

ELECTROREP, INC., 220 Fifteenth St. (See Adv. page 109)

ELLIOTT CO., DONALD T., 1229 Burlingame Ave., Burlingame

ELMEC SALES, INC., 1921 University Ave., Palo Alto

ESTES CO., CLAY, 1355 Market St.

EVERLY, PAUL S., 550 Ninth St.

FISHER SWITCHES, INC., 40 Gough St.

FLORENTINE & CO., P. O. Box 144, Santa Clara

FRANK, MILTON S., 420 Market St.

GARLAND-AFFOLTER ENG. CORP., 58 Sutter St.

GARNETT YOUNG & CO., 390 Fourth St.

GARRISON & CO., Builder's Exchange, 850 S. Van Ness Ave. (See Adv. page 98)

GENERAL ELEC. SUPPLY CO., 1201 Bryant St. (See Adv. page 91)

GLESENER CO., A. J., 975 Bryant St.

GRATIOT CO., C. B., 1282 Folsom St.

GRAY, GEO. A., 2720 17th St. (See Adv. page 88)

GRAYBAR ELECTRIC CO., INC., 1750 Alameda (See Adv. pages 28, 29)

GUTHRIE, FRED, G., 420 Market St.

HARRISS-KOETKE SALES CO., 204 Hillsdale Blvd., San Mateo

HAUCH CO., ERNST F., 735 Tehama St.

HEAT & CONTROLS, 1615 Cortland Ave.

HENGER-SELTZER CO., 721 Bryant St.

HILL CO., J. T., 1682 Laurel Ave., San Carlos

HOBELMANN & CO., INC., 225 Kansas St.

HODGES & GLOMB, 921 Bryant St. (See Adv. page 96)

HOLZMUELLER CORP., 360 Sixth St.

HONN COMPANY, GEORGE E., 560 Third St. (See Adv. page 33)

HOOEY & ASSOC., M. J., 1485 Bayshore Blvd. (See Adv. page 92)

HORNSTEIN BROS., P. O. Box 3170, Alameda and Illinois Sts.

HOWARD & GOEPP, 1301 6th (See Adv. page 109)

HUGHSON & MERTON, 1270 Bush St.

HUMBER & WALKER CO., 314 Twelfth St.

HUNDLEY CO., 115 New Montgomery St.

IMHOLT CO., W. B., 275 Brannan St.

INCANDESCENT SUPPLY CO., 647 Mission St. (See Adv. page 82)

INGALLS, DONALD E., 1485 Bayshore Blvd.

INGALLS & SONS, C. E., 681 Market St. (See Adv. page 87)

JACOBS, PAUL D., 420 Market St.

JENSEN INSTRUMENT CO., 429 Bryant St.

KAUFMAN, JACK, 126 25th Ave., San Mateo

KEELER, WHITE CO., 615 7th St.

KJAER EQUIP. CO., 1261 Howard St.

KOLANS & CO., BILL, 219 California Dr., Burlingame

KROTOZYNER, JAMES M., 544 Market St.

LAPKIN, NORTON, 1877 28th Ave.

LIGHTING PARTS, INC., 109 New Montgomery

LINEMENS SUPPLY CORP., 744 Harrison St. (See Adv. page 84)

LIPPINCOTT CO., 1355 Market St.

LITTRELL HARDWARE LINES, INC., 1325 Egbert St.

LOGAN SALES CO., 150 Eights St.

LONG & ASSOC., 505 Middlefield Rd., Redwood City

LUNDY, RALPH B., 1063 Howard St.

LYMAN, OLIVER B., 55 New Montgomery St.

LYNN & BROOKS, 1485 Bayshore Blvd.

MADDOX CO., JOHN, 420 Market St.

MARSH CO., J. W., 1485 Bayshore Blvd.

MARSHALL CO., G. S., 801 Woodside Rd., Redwood City

MARSHALL, HARRY E., 104 Olive

MARWOOD LTD., 357 Ninth St.

MAYDWELL & HARTZELL, INC., 870 Tennessee (See Adv. page 10)

McCARTHY-HOOL & ASSOC., 1485 Bayshore Blvd.

McCUNE-WESTERN CO., 51 Fremont St.

METCALF & CO., INC., JAMES I., 260 Kearney St.

MEYERS SAFETY SWITCH, 423 Tehama St. (See Adv. page 102)

MONTGOMERY BROTHERS, INC., 1122 Howard St. (See Adv. page 17)

MORLEY & CO., JOHN, 1001 Tennessee St.

MOULTHROP CO., 575 Tenth St.

MOULTHROP & HUNTER, 165 Eleventh St.

MULLEN, FRANK A., 59 Sixth Ave.

MUNDSTOCK, JAMES, 417 Market St. (See Adv. page 97)

NATIONAL ELECTRIC SUPPLY CO., No. 1 14th St.

NEWMAN, HAROLD L., 56 41st Ave., San Mateo

NICHOLAS COMPANY, F. M., 72 Townsend (See Adv. page 96)

NICKERSON-GRAY & ASSOC., 2434 Park Blvd., Palo Alto

NOACK, MARTIN, 681 Market St.

NORTHWEST SALES & ENGINEERING SERVICE, 420 Market St.

NOTT, L. A., 1061 Howard St. (See Adv. page 83)

PACIFIC SCIENTIFIC CO., 760 Harrison St.

PACIFIC STATES & ELEC. CABLE CORP., 6 Guittard Rd., Burlingame

PACIFIC UTILITIES SUPPLY CO., 141 King St. (See Adv. page 106)

PARKER CO., A. R., 420 Market St.

PARRISH & JUSTICE CO., 1355 Bush

PENINSULA ASSOCIATES, 1345 Hancock St., Redwood City

PERIN CO., INC., 575 Howard St.

PETERS-de LAET, INC., 1605 Rollins Rd., Burlingame

PETERSON SUPPLY CO., 480 Fifth St.

PFLIEGER CO., ROBERT, 1652 Laurel St., San Carlos

PHILLIPS & EDWARDS ELEC. CORP., 265 Vermont (See Adv. page 82)

PIMPER, T. F., 458 Brannan St.

PROFFITT, GORDON H., World Trade Center

PURDY, W. J., 312 7th St.

ROSS CO., DAVID H., 534 El Camino Rd., San Carlos

ROSS, HAROLD, 420 Market St.

ROUTH CO., T. D., Box 1056, Burlingame

RUDAT SALES CO., 1477 Dana, Palo Alto

RYALS CO., K. M., CO., 9 First St. (See Adv. page 61)

SAMSON SALES CO., 420 Market St.

SCHEIBERT & FUCHSMANN, 1485 Bayshore

SINAI-JOHNSON, INC., 845 Jessie

SQUIRES CO., 370 Fourth St.

STANLEY SALES CORP., 1122 Folsom St.

STENACHER, 378 Solana Dr., Los Altos

STENSEN CO., M. A., 1211 Academy, Belmont

STONE CO., FRED D., 24 Manzanita Ave.

STONE CO., W & B, 1355 Market St.

STRASSNER CO., RICHARD A., 126 Third St., Los Altos

THALLON, ROBERT, P. O. Box 937, San Mateo (See Adv. page 79)

TOMPKINS, WIN W., 941 Newell Rd., Palo Alto

TRI-STATE SUPPLY CORP., 554 Bryant St. (See Adv. page 25)

TROJAN, INC., 1125 Maripose

WAGNER, M. A., 1075 Broadway, Belmont

WALLACE CO., WALTER, 435 Bryant St.

WESTCO PUMP SALES CO., 85 Industrial

WESTERN FIBERGLAS SUPPLY CO., 739 Bryant St.

WESTERN HARDWARE & TOOL CO., 122 10th St. (See Adv. pages 84, 87, 100)

WESTINGHOUSE ELEC. SUPPLY, 201 Potrero.

WILCOX CO., E. A., 173 Utah Ave.

WILT CO., THE, O. B., 934 Terminal Way, San Carlos

WRATHALL & KRUSI, 681 Market St. (See Adv. page 6)

WRIGHT & CO., NORMAN, 1015 Folsom

ARIZONA

Phoenix

ANDERSON CO., KENNETH, 422 S. 7th Ave.

BENNDORF CO., WM., 221 E. Camelback Road

CARNS-HOAGLUND CO., 420 No. 15th Ave.

COULSON, ROY E., P. O. Box 9215

EDDY ELECTRIC, W. H., 957 E. Van Buren.

ELECTRICAL EQUIP. CO. OF ARIZ., First Ave. at Madison

ELECTRICAL SPECIALTY CO., 210 W. Adams

ENSIGN & KEMPSON, 4428 E. Washington

FOLEY & ASSOC., 3840 N. Jokake Dr.

GARNETT YOUNG & CO., 1400 N. 32nd St.

GORMAN, F. W., P. O. Box 10065

GRAYBAR ELEC. CO., 1700 No. 22nd Ave. (See Adv. pages 28, 29)

HANSEN CO., EDGAR G., 630 Security Bldg.

HARTLEY, BARNEY H., 708 Willetta West

HILL, GEORGE W., 14 E. Mitchell Dr.

HOWE HOWE SALES, 4328 N. 42nd

INDUSTRIAL ELECTRIC PRODUCTS, INC., 212 S. 7th Ave.

LEDBETTER CO., GEORGE W., 4328 N. 42nd Place

MATHEWSON, ROBERT S., 8325 N. 9th Ave.

MAYDWELL & HARTZELL UTILITY EQUIP. CORP. 120 S. 29th Ave. (See Adv. page 10)

METCALF & CO., INC., JAMES I., 414-16 Security Bldg.

OSBORN, W. C., 7116 N. 13th St.

PARRISH & JUSTICE CO., 3111 N. 34th Place

RANDOLPH ENGINEERING CORP., 1029 N. 1st (See Adv. page 9)

REDMOND SUPPLY COMPANY, J. E., 625 W. Madison St.

ROSS, NORMAN F., 4227 N. Monte Vista Dr., Scottsdale

SHEFLER-KAHN CO., 240 S. 1st Ave.

TWEEDY CO., R. E., 356 E. Alvarado

UTILITIES SUPPLY CO., 419 S. 7th St.

WARE & ASSOCIATES, JOHN ALLEN, 721 West Buchanan

WELLER, E. P., 1902 E. Roney Ave.

WENDLING, RAY E., P. O. Box 3721

Tucson

CENTRAL STATION EQUIP. CO., 2323 Aviation Highway

MAYDWELL & HARTZELL, INC., 110 E. Sixth St. (See Adv. page 10)

COLORADO

Denver

ARCHIBALD & MILLIE, 1863 Wazee

BACH ASSOCIATES, 191 Oneida St.

BACON'S ELEC'L. EQUIP., 1240 S. Elizabeth

BELT & CO., C. D., 2149 So. Clermont

BLINN CO., JAMES H., 841 Delaware

BOYER & SEELEY, INC., 1196 Stout St.

CARPENTER CO., ALLEN B., 1314 Wazee St.

CLARK, BEN T., 1421 Court Place

CLOOS, GREGG N., 977 Jackson.

CLUPHF, STAN, & ASSOCIATES, 75 S. Cady Court

CONDON, HOWARD F., 3001 Elm St.

CONGDON CO., DON, 1530 Dover, Suite 9, Lakewood

COOK, EDWIN P., 845 Wyandot St.

DAWSON, JIM, 661 Delaware St.

DILLON CO., C. M., 1031 Bannock

DOUDEN & CO., PAUL, 1645 Wazee St.

E & M EQUIPMENT CO., 2415 15th St.

EASTER-OWENS ELEC. CO., 610 Lipan St.

ELECTRIC MOTOR SUPPLY CO., 1646 Blake St.

ELECTRICAL SPECIALTY CO., 2026 Arapahoe

ELLIOTT, CLYDE P., 661 Delaware St.

FLORANCE & ASSOCIATES, 2052 Humboldt.

GAER SALES, 1625 W. 12th Ave.

GENERAL ELECTRIC SUPPLY CO., 1429 18th St. (See Adv. page 91)

GRAYBAR ELECTRIC CO., INC. 104 Wazee Market (See Adv. pages 28, 29)

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OLMSTEAD CO., HARVEY, P. O. Box 5512TA

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VONIER CO., EVERETT, 201 Wyandot

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CARDER, JR. CO., THE JOHN, 1624 N. 1st St.

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Medford

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Portland

BACH ELECTRIC, PETE, 1233 N. W. 12th Ave.

BAXTER CO., L. M., 1238 N.W. Glisan

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BURCHAM COMPANY, DON H., 510 N. W. 19th Ave. (See Adv. page 90)

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CRESS CO., W. H., 201 Concord Bldg.

DONAL COMPANY, P. O. Box 7013

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KEELER, WHITE—PORTLAND, 523 N.W. Everett St.

KING, DAVID, 202 Regal Bldg.

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P & G ASSOCIATES, 1132 N.W. Glisan St.

PAUL CO., VIC, 510 N.W. Hoyt

POLICH, INC., ANDREW L., 734 N. W. Glisan St.

PROBY & ASSOCIATES, WM., (E. A. Ryan) 1308 N.W. Everett

RIGGS, INC., C. E., 422 N. W. 8th.

SANDERLIN CO., 79 S. E. Taylor

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SHAFFER & NELSON, 1001 S.E. Water

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DARGER CO., THE, 211 South 2nd West St.

ELECTRIC SPECIALTY CO., 2588 Simpson Ave.

ELGGREN & SONS CO., A. J., 212 West 4th South

GENERAL ELECTRIC SUPPLY CO., 312 West 2nd South St. (See Adv. page 91)

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PACE TURPIN & CO., 726 S. Third West St.

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SHAFFER & NELSON, 1415 S. Main St.

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STEVENS SALES CO., 1482 Major St.

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TRI-WESTERN AGENCY, 1327 Major St.

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COBB CO., VERNON B., 2516 Minor No.

COLLINS-GILLETT CO., 2501 Crestmont Place

DENNY CO., H. M., 3410 16th Ave. West

EICHER & COMPANY, 5 West Harrison St.

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ENGLISH, R. C. & ASSOCIATES, 4229 122nd Ave. S. E., Bellevue

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GENERAL ELECTRIC SUPPLY CO., 1212 1st Ave. South (See Adv. page 91)

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NORTHWEST SALES & ENG. SERVICE, Terminal Sales Bldg.

NORTHWESTERN AGENCIES, INC., 4130 First Ave. South.

NORWEST CO., 330 Second Ave., West

PARATICH, 9210 28th Ave. N. W.

PARSONS & CO., C. B., 3028 First Ave.

PATTERSON CO., S. F., 1717 W. Austin St.

PENNING, J. R., 2323 2nd Ave.

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SCHACK & CO., ED B., 2218 1st Ave.

SCHARR, FREEMAN C., 1500 Westlake Ave. No.

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SHAFFER & NELSON, 312 Occidental Ave.

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STEARNS SALES CO., Rt. 6, Box 945

HAWAIIAN ISLANDS

Honolulu

BARGION CO., HUGH, P. O. Box 3679

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CABOT & ASSOCIATES, Mail: P. O. Box 3708

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FERRY CO., JIM P., 1169 Kapiolani

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HONOLULU ELECTRICAL PRODUCTS, LTD., P. O. Box 459

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LINZER CO., ALFRED, Kapiolani Blvd.

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NATIONAL ELECTRIC SUPPLY, LTD., 611 Keeaumoku Street

PIETY FACTORS, INC., GENE, 2030 Home Rule

Anchorage

ALASKA

ANDRE-MANN CO., P. O. Box 2187

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ELECTRICAL WEST

Spokesman
for the
Most Highly Electrified Region of the U.S.

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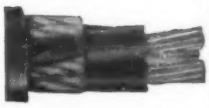
Simplex PRODUCTS GUIDE

SIMPLEX WIRE & CABLE CO., CAMBRIDGE 39, MASSACHUSETTS, U.S.A.

Simplex ANHYDREX Insulated Cables for Power transmission and Communication (like the Simplex TIREX Portable Cords and Cables shown in adjacent column), though manufactured as stock products, are custom designed to suit all service requirements. A large technical and engineering staff at Simplex' main plant is equipped to give you the benefits of their long experience in electrical cable planning.

ANHYDROPRENE — Simplex ANHYDROPRENE Cables are designed for economical installation in ducts, conduits, racks, trays and raceways. Stock sizes AWG 14 to 1000 MCM are recommended for 90 C service in WET or DRY locations. The words "Simplex ANHYDROPRENE" are either printed or molded plainly on the jackets of all ANHYDROPRENE cables. This marking signifies the traditionally high quality of a Simplex product.

CATALOGUE #1028



ANHYDREX-NEOPRENE — Simplex ANHYDREX-NEOPRENE Cables have the added mechanical protection of a heavy wall of neoprene jacketing. These cables are manufactured for use in aerial installations and for direct burial service. Stock sizes AWG 14 to 1000 MCM are recommended for 90 C service in WET or DRY locations.

CATALOGUE #1028

ANHYDREX-PLASTEX — Simplex ANHYDREX-PLASTEX (ANHYDREX-insulated, PLASTEX-jacketed) Cables are scientifically designed for compatibility between insulation and jacket, and for perfectly balanced performance in ducts, conduits, aerial and direct burial installations. ANHYDREX-PLASTEX Cables are recommended for service in a number of environments but especially where oils and chemicals are a problem.

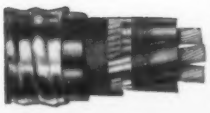
CATALOGUE #1028

ANHYDREX Insulated Control Cables — Simplex ANHYDREX Control, Signal and Communication Cables have an additional thickness of appropriately coded neoprene over each individual conductor, plus heavy-duty neoprene jackets. ANHYDREX insulation provides excellent signal reproduction and is exceptionally stable, even when operating with high ambient temperatures.

CATALOGUE #1028

ANHYDREX XX — Simplex ANHYDREX XX is a butyl-based insulation of the highest possible quality. Because of its exceptional resistance to heat and ozone, it has general applications in circuits operating up to 35,000 volts, with permissible conductor temperatures of 90 C. to 5KV, and 85 C to 17KV — in wet or dry locations.

CATALOGUE #1023



CONDEX — Simplex CONDEX Cables are protected against mechanical damage by interlocked metallic armor. The armor is manufactured of galvanized steel, plain or baked enameled (colored) aluminum, bronze or other metals, and can be applied over any cable core within a very wide diameter range. CONDEX Cables may be further protected by a thermoplastic covering over or under the metallic armor.

CATALOGUE #1024

TIREX SO and SJO Cords — TIREX SO and SJO Cords are constructed to meet the most rigid specifications. All of their special features are carefully selected and processed to give maximum qualifications for portable service. They will twist without kinking, and bend without breaking. TIREX stranding affords maximum flexibility without sacrificing strength.

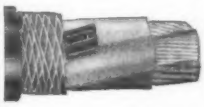
Conductor temperature rating 75c

CATALOGUE #992

TIREX Low Voltage Portable Cables — TIREX Low Voltage Cables are individually designed for specific applications. They are practically indestructible when used to do the work for which they are intended.

Conductor temperature rating 75c

CATALOGUES #992 & #1011



TIREX High Voltage Portable Cables — TIREX High Voltage Portable Cables have unequaled strength and versatility. Designed primarily to transmit energy to mobile electrical equipment, they are also used as temporary power lines during alterations or emergency repairs.

Conductor temperature rating 75c

CATALOGUE #1012

TIREX Mine Locomotive Cables — TIREX Mine Locomotive Cables — both single and two-conductor concentric — are approved by the Bureau of Mines and have the raised marking "P-101 BM" on their heavy-duty neoprene jackets. All TIREX Cables are cured and conditioned for service in lead.

Conductor temperature rating 75c

CATALOGUE #1011

TIREX Mining Machine and Shuttle Car Cables — TIREX Mining Machine and Shuttle Car Cables are designed for stability under today's rigorous mining conditions. The insulated conductors are "ribbed" or gear-shaped. This feature causes them to interlock with the heavy duty neoprene jacket and prevents them from slipping. Both Type W and Type G have "P-101 BM" molded onto the jacket.

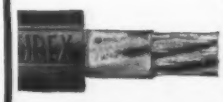
Conductor temperature rating 75c

CATALOGUE #1011

TIREX Dredge and Shovel Cables — TIREX Dredge and Shovel Cables are masterpieces of engineering achievement. Every consideration has been given to safety and durability. Simplex special cured-in-lead neoprene armor effectively resists all the elements normally encountered in this type of work.

Conductor temperature rating 75c

CATALOGUE #1012



TIREX Welding Cables —TIREX Welding Cables are scientifically stranded for maximum flexibility without wrist drag. Cured-in-lead neoprene jackets provide utmost safety for both operator and bystanders.

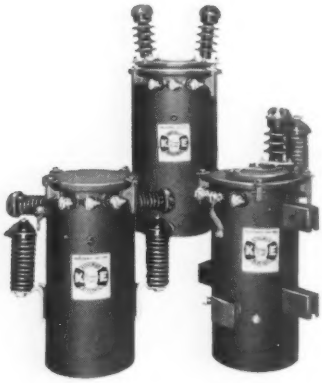
Conductor temperature rating 75c

CATALOGUE #1011

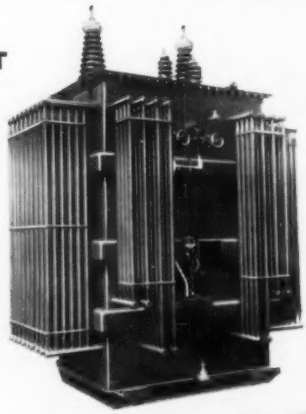
See page 71 Manufacturers' Directory Section for Simplex Western Sales Offices

KUHLMAN TRANSFORMERS

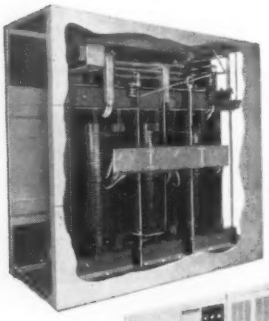
MADE IN THE WEST—TO SERVE THE WEST



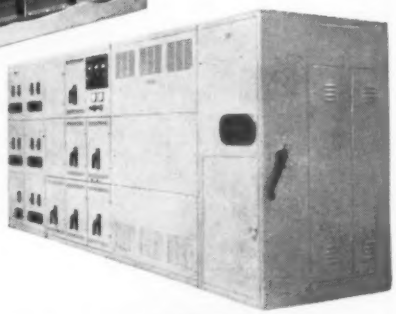
Kuhlman Pole Type, Conventional CSP and rural transformers.



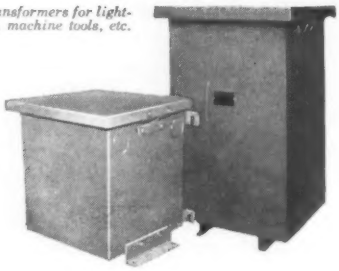
Kuhlman Substation Transformers, 10,000 KVA through 69 KV, single and three phase.

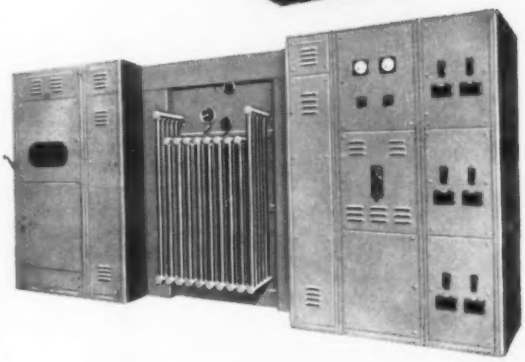


Designed for maximum 80° rise over ambient temperature of 40° C. Supplied as core and coil units, and as enclosed sections.

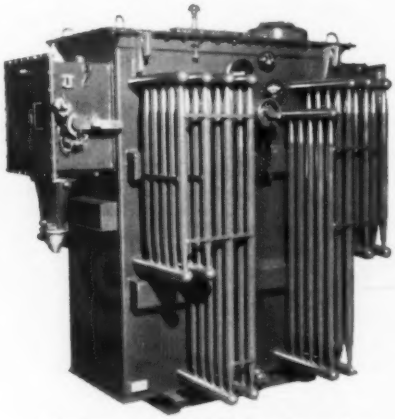


Dry type transformers for lighting circuits, machine tools, etc.





Indoor power center: Safe-T-Kuhl flush end constructed transformer, primary fused air interrupter switch and low voltage switchgear.



Outdoor power center: Oil-filled weatherproof constructed transformer with primary oil immersed switch and low voltage terminal chamber.

KUHLMAN

ELECTRIC COMPANY

General Offices—Birmingham, Michigan

Western Division—Salinas, California

See Page 42 Manufacturers' Directory Section for Kuhlman Western Factory and Sales Offices

ELECTRICAL WEST-

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